Arid West Wetland Determination Data Forms



Project/Site: Pixiey Groundwa	ater Bank		City/County: 1	ulare		Sampling	Date: January 29, 20
Applicant/Owner: South Water Bar	nking Authority				State: CA	Sampling	Point:
nvestigator(s): Jim Gibson & Ma	att Hirkala		Section,	Township,	Range: Section 14,	Township 23 South,	, Range 25 East
andform (hillslope, terrace, etc.):	terrace		Local relief	f (concave	e, convex, none):	none	Slope (%): <1
Subregion (LRR): Mediterranean C	California (LRR C)	Lat:	_	35	.931625 Long:	-119.23017	73 Datum: NAD83
	nford sandy loam, 0-2				NWI Classific		<u> </u>
are climatic / hydrologic conditions			vear?	Yes		(If no, explai	n in Remarks)
re Vegetation X, Soil	**		•			mstances" present?	
	, or Hydrology					any answers in Rem	
ile vegetation, Soil	, or Hydrology		naturally proble	emance	(II fieeded, explain	any answers in Ren	idiks.)
SUMMARY OF FINDINGS -	Attach site map	showing	sampling p	oint loc	ations, transects	, important feat	ures, etc.
ydrophytic Vegetation Present?	Yes N	0	le the Com	mlad Araa			
ydric Soil Present?	Yes N	o X	Is the Sam within a W	•	Yes	No)	K
Vetland Hydrology Present?	Yes N		Within a vi	vetiana:			
demarks:							
/EGETATION – Use scient	ific names of nic	ante					
LOCIATION - Use scient	——————————————————————————————————————	Absolute	Dominant In	ndicator	Dominance Test wo		
To a Otrataura (District		% Cover		Status	Number of Dominant		
Tree Stratum (Plot size:)		<u> </u>		That Are OBL, FACV	•	• (4)
						· ·	0 (A)
					Total Number of Don		
					Species Across All S	a.a.	0 (B)
					Percent of Dominant		
			=Total Cover		That Are OBL, FACV	V, or FAC:	N/A (A/B)
				-			
Sapling/Shrub Stratum (Plot size	e:)				Prevalence Index W	/orksheet:	
					Total % Cover of	of: Mi	ultiply by:
					OBL species	0 x1 =	0
					FACW species	0 x2 =	0
					FAC species	0 x3 =	0
					FACU species	0 x4 =	0
			=Total Cover		UPL species	0 x5 =	0
Herb Stratum (Plot size: 4' x 4	')				Column Totals:	0 (A)	0 (B)
					Prevalence Index =	= B/A = N	1/A
							
					Hydrophytic Vegeta	ation Indicators:	
					N/A Dominance		
					Prevalence	Index is ≤3.0 ¹	
						cal Adaptationd ¹ (Pro	ovido supporting
						narks or on a separa	
·						c Hydrophytic Vegeta	·
·		0	=Total Cover			7 Tryarophytio Vegete	mon (Explain)
Woody Vine Stratum (Plot size:			- Total Covel		¹ Indicators of hydric s be present, unless di		
·						Starbed or problema	uo.
			=Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum	100			0	Vegetation	Voc	No
			Biotic Crust		Present?	Yes	No
Remarks: This area was recently of	lisked. No vegetation	n was prese	nt.				

WETLAND DETERMINATION DATA FORM -	Arid	West	Region
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Remarks ix. ydric Soils³:)) s)
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nytic vegetation and must be present,
or problematic.
Yes No X
rs (2 or more required)
B1) (Riverine)
osits (B2) (Riverine)
(B3) (Riverine)
erns (B10)
ater Table (C2)
ws (C8)
ble on Aerial Imagery (C9)
ard (D3) est (D5)
Yes No X
<u> </u>
() () () () () () () () () () () () () (

Project/Site:	Pixley Groundwater	Bank		City/County:	Tulare			Samp	ling Date:	January 29, 2015
Applicant/Owner:	South Water Bankin	ng Authority				St	ate: CA	Samp	ling Point:	2
Investigator(s):	Jim Gibson & Matt	Hirkala		Section	n, Township	, Range: Se	ection 12, Towns	- ship 23 Sc	uth, Range	25 East
Landform (hillslop	e, terrace, etc.):	terrace		Local re	lief (concav	e, convex, no	ne): none		Slope	e (%): <1
Subregion (LRR):	Mediterranean Calif	fornia (LRR C)	La	t:	35	5.945619 L	ong:	-119.22	28545 D	Datum: NAD83
Soil Map Unit Nan	ne: 124 - Hanfo	rd sandy loam,				NW	'I Classification:	N/A		
Are climatic / hydr	ologic conditions on	the site typical	for this time				No	(If no, ex	plain in Rer	narks.)
Are Vegetation	, Soil	_, or Hydrology	y	significantly	disturbed?	Are "Norr	nal Circumstand	es" prese	nt? Yes	x No
Are Vegetation	, Soil	, or Hydrology	y	naturally pro	oblematic?	(If needed	l, explain any ar	swers in I	Remarks.)	
SUMMARY OF	FINDINGS - A	ttach site m	ap showin	ng sampling	point lo	cations, tra	ansects, imp	ortant f	eatures, e	etc.
Hydrophytic Vege	tation Present?	Yes	No X	1. 45. 0.		_				
Hydric Soil Preser	nt?	Yes	No X		mpled Area Wetland?	a,	Yes	No	X	
Wetland Hydrolog	y Present?	Yes	No X	_ *********	· · · · · · · · · · · · · · · · · · ·				_	
Remarks:										
VEGETATION	- Use scientific	c names of p								
			Absolute % Cover	Dominant Species?	Indicator Status		Test workshe			
Tree Stratum	(Plot size:)	70 COVE		- Status		Dominant Speci BL, FACW, or F			
1								····	0	(A)
2			<u> </u>				er of Dominant			
3						Species Aci	ross All Strata:		1	(B)
4				_ 			Dominant Specie		••/	(A (D)
				_=Total Cove	r	That Are Of	BL, FACW, or F	AC:	0%	(A/B)
Sanling/Shrub	Stratum (Plot size: _	1				Provalonce	Index Worksh	not:		
1.	Stratum (1 lot size						6 Cover of:	GG1.	Multiply by	v.
2				-		OBL specie		x1 =		<u>/·</u>
3						FACW specie	-	x2 =		
4.						FAC specie		x3 =		
5.						FACU spec		x4 =		
				=Total Cove	r	UPL specie	s 100	x5 =	500	
Herb Stratum	(Plot size: 4' x 4')			_		-	als: 100	(A)	500	(B)
1. Immature Fo	orage Grass		100	Yes	UPL	Prevalend	ce Index = B/A =		5.0	<u> </u>
2										
3						Hydrophyti	ic Vegetation Ir	dicators	:	
4			<u> </u>				ominance Test is			
						Pr	evalence Index	is ≤3.0 ¹		
6			<u> </u>				orphological Ada			
			· ———				ta in Remarks o			,
8						Pr	oblematic Hydro	phytic Ve	getation' (E	xplain)
			100	_=Total Cove	r	1				
	ratum (Plot size:	,					of hydric soil and unless disturbe			nust
_						be present,	uniess distarbe	a or proble	inauc.	
Z			·	=Total Cove		Hydrophyti				
% Bare Ground	d in Herb Stratum	0	% Cover o	=rotal cover of Biotic Crust		Vegetation Present?		Yes	No	X
				-						
remarks: This ar	ea was in cotton las	ı year, at the tin	ne or neia suf	veys it was in	υριαπα τοτας	je grass.				

	scription: (Desc										
Depth	Matr				lox Featı		2				
inches)	Color (mois	<u> </u>	Color (r	moist)	<u>%</u>	Type ¹	Loc ²	Texture	_	Remarks	
) - 12	10YR4/4							loamy sand	_		
	-								_		
									_		
								· -			
						-	-	·			
Type: C=C	oncentration D=De	enletion RM=Re	educed Matr	ix CS=Co	vered or 0	Coated San	d Grains	² Location: PL=P	ore Lining, M=Matrix		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
-	I Indicators: (A	pplicable to a	II LRRs, u						r Problematic Hy	dric Soils³:	
	sol (A1)			Sandy R					ick (A9) (LRR C)		
	Epipedon (A2)			Stripped	•	,			ick (A10) (LRR B)		
	Histic (A3)			•	-	neral (F1)			d Vertic (F18)		
	gen Sulfide (A4)			•	•	latrix (F2)			ent Material (TF2)		
	fied Layers (A5) (Depleted				Other (E	xplain in Remarks	5)	
	Muck (A9) (LRR			Redox D		` ,					
	ted Below Dark S	` ,				urface (F7)				
	Dark Surface (A			Redox D						ytic vegetation and	
	y Mucky Mineral			Vernal P	ools (F9)			etland hydrology n		
	y Gleyed Matrix (unless disturbed o	or problematic.	
	l aver (if prese	nt):									
Restrictive	- Layor (proces										
ype:											
Гуре: Depth (inch marks:			vel.				Ну	/dric Soil Prese	nt? Y	/es No	x
Type: Depth (inch marks:	nes):		vel.				ну	ydric Soil Prese	nt? Y	'es No	X
ype: Depth (inch marks: soil samp	nes):		vel.				ну	dric Soil Prese	nt? Y	/es No	X
ype:	nes):	ompacted grav	vel.				Ну	dric Soil Prese	nt? Y	/es No	X
Type:	nes):le taken due to c	ompacted grav		all that ap	oply)		ну			No No	X
Type: Depth (inch marks: soil samp DROLOG Vetland H Primary Inc	nes):le taken due to c Y ydrology Indica	ompacted grav		all that ap Salt Crus			Ну			s (2 or more required)	X
DROLOG Vetland H Primary Inc High N	ries): Ile taken due to c Y ydrology Indicaticators (minimur ce Water (A1) Water Table (A2)	ompacted grav tors: n of one requir		Salt Crus Biotic Cr	st (B11) rust (B12	•			condary Indicators _ Water Marks (B	s (2 or more required)	X
ype:epth (inch marks: soil samp DROLOG Vetland H rimary Inc Surfac High \ Satura	y ydrology Indicadicators (minimur ce Water (A1) Water Table (A2) ation (A3)	ompacted grav tors: n of one requir		Salt Crus Biotic Cr Aquatic I	st (B11) rust (B12 Invertebr	ates (B13)		condary Indicators _ Water Marks (B	s (2 or more required) B1) (Riverine) sits (B2) (Riverine)	×
DROLOG Vetland H Primary Inc Surfac High V Satura	y ydrology Indicadicators (minimur ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (No	ompacted gravetors: In of one required one r	red; check	Salt Crus Biotic Cr Aquatic I Hydroge	st (B11) rust (B12 Invertebr n Sulfide	rates (B13 e Odor (C1)	Se	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Pattel	s (2 or more required) 31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10)	X
DROLOG Vetland H Surfac High Satura Water Sedin	Y ydrology Indicadicators (minimur ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Noment Deposits (B3)	ompacted grave tors: n of one requirence of one	red; check	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	st (B11) rust (B12 Invertebr n Sulfide Rhizosp	rates (B13 e Odor (C1 oheres alo))) ng Living		condary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patter	s (2 or more required) B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2)	×
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DROLOG DROLOG Vetland H Primary Inc Surfac High V Satura Watel Sedin Drift E Surfac	Y ydrology Indicaticators (minimur ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Noment Deposits (B2) Deposits (B3) (No	ompacted gravetors: m of one requirements onriverine) (Nonriverine) (36)	red; check	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12 Invertebr n Sulfide Rhizosp e of Red ron Red	rates (B13 e Odor (C1 oheres alo uced Iron uction in T)) ng Living (C4)	Se	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Pattel Dry-Season Wa Crayfish Burrow Saturation Visit	s (2 or more required) (31) (Riverine) (33) (Riverine) (33) (Riverine) (33) (Riverine) (34) (Riverine) (35) (Riverine) (36) (R	
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Depth (inch marks: soil samp DROLOG Wetland H Primary Inc Surfac High V Sedin Drift E Surfac Inund Water Surface Wa Water Tabl	y ydrology Indica dicators (minimur ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (No ment Deposits (B3) (No ce Soil Cracks (B ation Visible on A r-Stained Leaves ervations: ater Present?	ompacted grave tors: m of one requirements on riverine) (2) (Nonriverine) (36) Aerial Imagery (B9) Yes Yes Yes	red; check ————————————————————————————————————	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E	st (B11) ust (B12) invertebr n Sulfide Rhizosp e of Red ron Red ck Surfac xplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Se	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquitar FAC-Neutral Te	s (2 or more required) (31) (Riverine) (33) (Riverine) (33) (Riverine) (33) (Riverine) (34) (Riverine) (35) (Riverine) (36) (R	
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Type:	res): Y ydrology Indicaticators (minimurce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) (Noment Deposits (B3) (Noment Deposits (B3)) Ce Soil Cracks (Bation Visible on Ar-Stained Leaves ervations: ater Present? Present? Present? apillary fringe)	ompacted grave tors: m of one requirements of the control of the c	red; check ————————————————————————————————————	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) Invertebr n Sulfide Rhizosp e of Red ron Redi ck Surfac xyplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Se Roots (C3) s (C6) Wetland Hydre	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquitar FAC-Neutral Te	s (2 or more required) st) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ole on Aerial Imagery (rd (D3) est (D5)	C9
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Type:	res): Y ydrology Indicaticators (minimurce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) (Noment Deposits (B3) (Noment Deposits (B3)) Ce Soil Cracks (Bation Visible on Ar-Stained Leaves ervations: ater Present? Present? Present? apillary fringe)	ompacted grave tors: m of one requirements of the control of the c	red; check ————————————————————————————————————	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) Invertebr n Sulfide Rhizosp e of Red ron Redi ck Surfac xyplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Se Roots (C3) s (C6) Wetland Hydre	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquitar FAC-Neutral Te	s (2 or more required) st) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ole on Aerial Imagery (rd (D3) est (D5)	
Type:	res): Y ydrology Indicaticators (minimurce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) (Noment Deposits (B3) (Noment Deposits (B3)) Ce Soil Cracks (Bation Visible on Ar-Stained Leaves ervations: ater Present? Present? Present? apillary fringe)	ompacted grave tors: m of one requirements of the control of the c	red; check ————————————————————————————————————	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) Invertebr n Sulfide Rhizosp e of Red ron Redi ck Surfac xyplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Se Roots (C3) s (C6) Wetland Hydre	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquitar FAC-Neutral Te	s (2 or more required) st) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ole on Aerial Imagery (rd (D3) est (D5)	C9)
Type: Depth (inch marks: soil samp TDROLOG Wetland H Primary Inc Surfac High \ Satura Water Sedin Drift E Surfac Inund Water Surface Wa Water Tabl Saturation includes conscribe Rec	res): Y ydrology Indicaticators (minimurce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) (Noment Deposits (B3) (Noment Deposits (B3)) Ce Soil Cracks (Bation Visible on Ar-Stained Leaves ervations: ater Present? Present? Present? apillary fringe)	ompacted grave tors: m of one requirements of the control of the c	red; check ————————————————————————————————————	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) Invertebr n Sulfide Rhizosp e of Red ron Redi ck Surfac xyplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Se Roots (C3) s (C6) Wetland Hydre	condary Indicators Water Marks (B Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquitar FAC-Neutral Te	s (2 or more required) st) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ole on Aerial Imagery (rd (D3) est (D5)	C9

Project/Site:	Pixley Groundwater	r Bank		_City/County:	Tulare			Samplii	ng Date:	January 29, 201
Applicant/Owner:	South Water Banki	ng Authority				State:	CA	Samplii	ng Point:	
Investigator(s):	Jim Gibson & Matt	Hirkala		Section	n, Township	, Range: Section	n 7, Township	23 Sout	h, Range 2	26 East
Landform (hillslop	e, terrace, etc.):	terrace		Local re	lief (concav	e, convex, none)	: none		Slope	e (%): <1
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat	t:	35	.938344 Long	:	-119.208	3185 D	Datum: NAD83
Soil Map Unit Nar	me: 108 - Colpie	en Ioam, 0-2% s	slopes			NWI CI	assification:	N/A		
Are climatic / hyd	rologic conditions on	the site typical	for this time of	of year?	Yes_	<u>x</u> No		(If no, exp	olain in Rer	marks.)
Are Vegetation	, Soil	, or Hydrolog	у	significantly	disturbed?	Are "Normal	Circumstance	s" presen	it? Yes	xNo
Are Vegetation	, Soil	, or Hydrolog	у	_ naturally pro	oblematic?	(If needed, ex	plain any ans	wers in R	emarks.)	
SUMMARY O	F FINDINGS - A	ttach site m	ap showin	g sampling	point loc	cations, trans	ects, impo	rtant fe	atures, e	etc.
Hydrophytic Vege	etation Present?	Yes	No_X	Is the Sa	ampled Area	1				
Hydric Soil Prese		Yes	NoX		Wetland?	¹ Yes		No	X	•
Wetland Hydrolog	gy Present?	Yes	No X	_						
VEGETATION	- Use scientifi	names of	nlante							
VEGETATION	- Use scientific	c names or	piants.							
			Absolute		Indicator	Dominance Te	st workshee	t:		
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Don				
1						That Are OBL,	FACW, or FA	C:	0	(A)
2						Total Number of				
						Species Across	All Strata:		2	(B)
4						Percent of Dom				
				_=Total Cove	r	That Are OBL,	FACW, or FA	C:	0%	(A/B)
0 1' 1'0 1	Otratana (Diataia)	,				B	I \A/ I I			
	Stratum (Plot size: _)				Prevalence Inc			Multiply	
1						Total % Co			Multiply by	<u>y:</u>
2						OBL species FACW species		x1 = x2 =	0	
4.				_		FAC species		x3 =	0	
5.						FACU species		x4 =	0	
·				=Total Cove		UPL species		x5 =	500	
Herb Stratum	(Plot size: 4' x 4')			_		Column Totals:	100	(A)	500	(B)
1. Immature Fo			40	Yes	UPL	Prevalence Ir		· · —	5.0	```
2. Sisymbrium	altissimum		20	Yes	FACU		-			
3						Hydrophytic V	egetation Inc	licators:		
4						Domir	nance Test is	>50%		
5						Preva	lence Index is	≤3.0 ¹		
6							ological Adap			
							n Remarks or	•		,
8						Proble	ematic Hydrop	hytic Veg	etation' (E	Explain)
		,	60	_=Total Cove	r	1				
	ratum (Plot size:					¹ Indicators of hybe present, unle				nust
1 2.						·	200 diotarbea	or probler	natio.	
-				=Total Cove		Hydrophytic				
% Bare Ground	d in Herb Stratum	40	% Cover o	=rotal cover f Biotic Crust	0	Vegetation Present?		Yes	No	X
Remarks:		-								
romano.										

Depth	Matrix		F	Redox Feat	tures						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	² Texture		Remarl	ks	
0 - 12	10YR4/4	100					loamy sand				
							 -				
	-						_				
'Type: C=C	oncentration, D=Depletio	n, RM=Reduc	ed Matrix, CS=	:Covered or	Coated San	nd Grair	ns. ² Location: PL=	=Pore Lining, M=Matr	ix.		
Hydric Soi	I Indicators: (Applic	able to all L	RRs. unless	otherwise	e noted.)		Indicators f	for Problematic H	vdric Soils	B.	
	sol (A1)			y Redox (S				Muck (A9) (LRR C)	,		
	Epipedon (A2)			ed Matrix	•			/luck (A10) (LRR B			
									')		
	Histic (A3)			-	Mineral (F1)			ed Vertic (F18)	١.		
	ogen Sulfide (A4)	0 \			Matrix (F2)			arent Material (TF2			
	fied Layers (A5) (LRR	C)		ted Matrix			Other	(Explain in Remark	S)		
	Muck (A9) (LRR D)			x Dark Sur							
	ted Below Dark Surface	ce (A11)			Surface (F7	')					
	Dark Surface (A12)		Redo	x Depressi	ions (F8)		³ In	idicators of hydropl	nytic vegeta	tion and	
Sandy	y Mucky Mineral (S1)		Verna	al Pools (F	9)			wetland hydrology			
Sandy	y Gleyed Matrix (S4)							unless disturbed	or problema	atic.	
Restrictive	Layer (if present):										
Type:											
Depth (inch			_				Hydric Soil Pres	eant?	Yes	No	x
Remarks:			_				Tiyane Con Fres	ociit:			
HYDROLOG	Υ										
Wetland H	ydrology Indicators:										
Primary Inc	dicators (minimum of c	ne required;	check all tha	t apply)			5	Secondary Indicator	rs (2 or mor	e required))
Surfa	ce Water (A1)	•	Salt (Crust (B11))		<u> </u>	Water Marks (
	Water Table (A2)		Biotic	Crust (B1	2)		_	Sediment Dep	, ,	•	
	ation (A3)			`	orates (B13	3	_	Drift Deposits	` , `	,	
	r Marks (B1) (Nonrive	rine)			le Odor (C1	,	=	Drainage Patte		,	
	nent Deposits (B2) (No			-			ing Roots (C3)	Dry-Season W		(C2)	
	Deposits (B3) (Nonrive				duced Iron	-		Crayfish Burro		(52)	
	ce Soil Cracks (B6)	51111 0)			duction in T		oile (C6)	Saturation Vis		al Imagon	(C0)
		Imagar, (D.				iiieu S		Shallow Aquita		ai iiiiayeiy	(09)
	ation Visible on Aerial			Muck Surfa		`	_	 '			
	r-Stained Leaves (B9)		Otner	(⊏xpiain ii	n Remarks))	_	FAC-Neutral T	ะรเ (มว)		
Field Obse			_								
					s):						
Water Tabl					s):						
Saturation		No	x Dep	oth (inches	s):		Wetland Hyd	drology Present?	Yes_	No	X
	apillary fringe)	01100	ringall -	ial nhata	nroude::= '	0057-1	iona) if and the				
Describe Rec	corded Data (stream g	auge, monito	ning well, aer	iai pnotos,	previous ir	ispect	ions), it available:	•			
Remarks:											

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

Project/Site: F	Pixley Groundwater	· Bank		City/County:	Tulare			Samp	ling Date:	January 29, 2015
Applicant/Owner: S	South Water Bankir	ng Authority				Sta	ite: CA	Samp	ling Point:	4
Investigator(s):	Jim Gibson & Matt I	Hirkala		Section	, Township,	, Range: Sec	ction 5, Townsl	– hip 23 Sou	ıth, Range 2	26 East
Landform (hillslope	, terrace, etc.):	terrace		Local rel	ief (concave	e, convex, nor	ne):	none	Slope	e (%): <1
Subregion (LRR): N	Mediterranean Calif	fornia (LRR C)	Lat:	_	35	.935138 Lo	ng:	119.19	98900 [Datum: NAD83
Soil Map Unit Name	e: 108 - Colpie	n loam, 0-2% slo					Classification:			' <u>'</u>
Are climatic / hydro	logic conditions on	the site typical fo	or this time of	year?	Yes	Х	No	(If no, ex	cplain in Rei	marks.)
Are Vegetation	X , Soil	, or Hydrology		significantly	disturbed?	Are "Norm	al Circumstan	es" prese	ent? Yes	x No
Are Vegetation _	, Soil	_, or Hydrology		naturally pro	blematic?	(If needed,	explain any ar	nswers in	Remarks.)	
SUMMARY OF	FINDINGS - A	ttach site ma	p showinç	g sampling	point loc	cations, tra	nsects, imp	ortant f	eatures, e	etc.
Hydrophytic Vegeta	ation Present?	YesN	No	1- 11- 0-						
Hydric Soil Present	?	Yes N	No X		mpled Area Wetland?	a Y	es	No	X	_
Wetland Hydrology	Present?	YesN	No X		Wotturia.					
Remarks:										
VEGETATION -	- Use scientific	c names of pl	ants.							_
			Absolute	Dominant	Indicator	Dominance	Test workshe	et:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of D	ominant Speci	es		
1.		,				That Are OB	L, FACW, or F	AC:	0	(A)
2.						Total Numbe	er of Dominant			
3.						Species Acro	oss All Strata:		0	(B)
4.						Percent of D	ominant Speci	es		
				=Total Cover			L, FACW, or F		N/A	(A/B)
					-					
Sapling/Shrub St	tratum (Plot size: _)				Prevalence	Index Worksh	eet:		
1						Total %	Cover of:		Multiply b	<u>y:</u>
2						OBL species		_x1 =		
3				· ——		FACW speci				
4						FAC species				
5				=Total Cover		FACU species UPL species		_x4 = x5 =	0	
Herh Stratum ((Plot size: 4' x 4')			- Total Cover			als: 0			(B)
1	(1 101 3120. 4 7 4)						e Index = B/A =			
2.						1 10 10101	o maox Dirit		1477	
				. ———		Hydrophytic	Vegetation I	ndicators	:	-
4							minance Test i			
_						Pre	valence Index	is $\leq 3.0^{1}$		
6.						Moi	rphological Ada	aptationd ¹	(Provide su	upporting
7						data	a in Remarks o	or on a se	parate shee	t)
8						Pro	blematic Hydro	ophytic Ve	getation ¹ (E	Explain)
			0	=Total Cover						
Woody Vine Stra	atum (Plot size:)					f hydric soil an			nust
1				· ——		be present, t	unless disturbe	a or probl	ematic.	
2						Hydrophytic	;			
0/ Dara Craundi	in Harb Ctratum	100		=Total Cover		Vegetation		Vaa	Na	
% Bare Ground i		100		Biotic Crust _	0	Present?		Yes	NO	
Remarks: This are	a was recently disk	ed. No vegetation	on was prese	ent.						

Depth	Matrix		r.e	dox Feati	1100					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	3
- 12	10YR4/4	100					loamy sand			
		_, ',								
	-									
								<u> </u>		
ype: C=C	Concentration, D=Depleti	on, RM=Redu	ced Matrix, CS=C	overed or (Coated Sand	Grains.	² Location: PL=	Pore Lining, M=Mat	rix.	
vdric So	il Indicators: (Applic	cable to all I	RRs. unless of	therwise	noted.)		Indicators for	or Problematic H	vdric Soils ³ :	
•	sol (A1)		•	Redox (S	•			luck (A9) (LRR C)	•	
	Epipedon (A2)			d Matrix (•			luck (A10) (LRR E		
	Histic (A3)				neral (F1)			ed Vertic (F18)	,	
	ogen Sulfide (A4)				atrix (F2)			arent Material (TF2	2)	
	ified Layers (A5) (LRF	RC)		d Matrix (Explain in Remark		
_	Muck (A9) (LRR D)	,		Dark Surf	. ,				,	
	eted Below Dark Surfa	ace (A11)			urface (F7)					
	Dark Surface (A12)	- (//		Depressio			3.	diameters (Cl.)	L. 41	
	ly Mucky Mineral (S1)			Pools (F9				dicators of hydrop wetland hydrology		
	ly Gleyed Matrix (S4)				,		`	unless disturbed		
	e Layer (if present):									
/pe:	, , , ,									
	hes):									NI- N
	1100).					Ну	dric Soil Pres	ent?	Yes	No)
marks:	ole taken due to comp	acted gravel	<u> </u>			Ну	dric Soil Pres	ent?	Yes	_ NO <u>)</u>
narks:		acted gravel				Ну	dric Soil Pres	ent?	Yes	NO
narks: soil samp	ole taken due to comp	acted gravel				Ну	dric Soil Pres	ent?	Yes	NO
marks: soil samp	ole taken due to comp		<u>-</u>			Ну	dric Soil Pres	ent?	Yes	_ NO <u></u>
marks: soil samp DROLOG Vetland H	ole taken due to comp	:		apply)		Ну		ent?		
narks: soil samp DROLOG /etland F rimary In	ole taken due to comp	:	; check all that a	apply) ust (B11)		Ну			rs (2 or more	required)
narks: soil samp DROLOG /etland F rimary In Surfa	ole taken due to comp SY Hydrology Indicators dicators (minimum of	:	; check all that a	,)	Ну		econdary Indicato	rs (2 or more B1) (Riverin e	required)
narks: soil samp DROLOG /etland F rimary In Surfa High	ble taken due to comp BY Hydrology Indicators dicators (minimum of ace Water (A1)	:	; check all that a Salt Cru Biotic C	ust (B11) Frust (B12) rates (B13)	Ну		econdary Indicato Water Marks (rs (2 or more B1) (Riverin e posits (B2) (R	required) e) iverine)
narks: soil samp DROLOG /etland F rimary In	ble taken due to comp by Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2)	: one required	; check all that a Salt Cru Biotic C Aquatic	ust (B11) rust (B12 Invertebr	•			econdary Indicato Water Marks (rs (2 or more B1) (Riverina posits (B2) (Ri (B3) (Riverina	required) e) iverine)
DROLOG /etland F rimary In Surfa High Satur Wate	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3)	: one required	; check all that a Salt Cru Biotic C Aquatic Hydrog	ust (B11) Frust (B12 Invertebren Sulfide	rates (B13) e Odor (C1)			econdary Indicato Water Marks (Sediment Dep	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10)	required) e) iverine)
DROLOG Vetland Frimary In Surfa High Satur Wate Sedir	Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive	: one required erine) lonriverine)	; check all that a Salt Cru Biotic C Aquatic Hydrogo Oxidize	ust (B11) rust (B12 Invertebren Sulfide d Rhizosp	rates (B13) e Odor (C1)	g Living		econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10) (Vater Table (C	required) e) iverine)
DROLOG Vetland H rimary In Surfa High Satur Wate Sedir Drift	Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (N	: one required erine) lonriverine)	; check all that a Salt Cru Biotic C Aquatic Hydrogo Oxidize Preseno	ust (B11) Trust (B12 Invertebren Sulfide d Rhizospece of Red	rates (B13) e Odor (C1) oheres alon	g Living C4)	<u>S</u> Roots (C3)	Secondary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W	rs (2 or more B1) (Riverine cosits (B2) (Ri (B3) (Riverine erns (B10) /ater Table (Cows (C8)	required) e) iverine) ie)
DROLOG Vetland Frimary In Surfa High Satur Wate Sedir Drift	Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (N	: one required erine) lonriverine) verine)	; check all that a Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent	ust (B11) Trust (B12 Invertebren Sulfide d Rhizospece of Red	rates (B13) Potential Organization (C1) Potential Organiza	g Living C4)	<u>S</u> Roots (C3)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W	rs (2 or more (B1) (Rivering posits (B2) (Rivering (B3) (Rivering (B10) (Ater Table (Cows (C8) (blue) (C8)	required) e) iverine) ie)
DROLOG /etland F rimary In Surfa High Satu Wate Sedir Drift Surfa Inunc	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Cace Soil Cracks (B6)	: one required erine) lonriverine) verine)	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Preseno Recent Thin Mu	ust (B11) crust (B12) Invertebren Sulfided Rhizospece of Red Iron Reduck Surface	rates (B13) Potential Organization (C1) Potential Organiza	g Living C4)	<u>S</u> Roots (C3)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10) /ater Table (Comes (C8) ible on Aerial ard (D3)	required) e) iverine) ie)
DROLOG /etland F rimary In	Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Soil Cracks (B6) dation Visible on Aeria	: one required erine) lonriverine) verine)	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Preseno Recent Thin Mu	ust (B11) crust (B12) Invertebren Sulfided Rhizospece of Red Iron Reduck Surface	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7)	g Living C4)	<u>S</u> Roots (C3)	Secondary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquit	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10) /ater Table (Comes (C8) ible on Aerial ard (D3)	required) e) iverine) ie)
DROLOG Vetland Frimary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate	Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (N	: one required erine) lonriverine) verine)	; check all that a Salt Cru Biotic C Aquatic Hydrogo Oxidize Preseno Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfide d Rhizospece of Red Iron Reduck Surface	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7)	g Living C4) led Soils	<u>S</u> Roots (C3)	Secondary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquit	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10) /ater Table (Comes (C8) ible on Aerial ard (D3)	required) e) iverine) ie)
DROLOG Vetland Frimary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) Per Marks (B1) (Nonrivation (B2) (Nonrivation (B3) (Non	: one required erine) lonriverine) verine) ul Imagery (B)	; check all that a Salt Cru Biotic C Aquatic Hydrog Oxidize Presenc Recent 7) Thin Mu Other (B	ust (B11) crust (B12) Invertebren Sulfide d Rhizospece of Red Iron Reduck Surface Explain in	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	<u>S</u> Roots (C3)	Secondary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquit	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10) /ater Table (Comes (C8) ible on Aerial ard (D3)	required) e) iverine) ie)
DROLOG /etland F rimary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate ield Obs aturation	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) or Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B6) dation Visible on Aeria or-Stained Leaves (B9) ervations: dater Present? Veresent? Veresent?	: one required erine) lonriverine) verine) Il Imagery (B) s N	; check all that a Salt Cru Biotic C Aquatic Hydroge Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfide d Rhizospece of Red Iron Reduck Surface Explain in	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3)	Secondary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquit	rs (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering erns (B10) /ater Table (Comes (C8) ible on Aerial ard (D3)	required) e) iverine) ie)
DROLOG Vetland Frimary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate ield Obs	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B4) (Nonrivement Deposits (B5) (Nonrivement Deposits (B6) (Nonrivement Deposits (: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS
DROLOG Vetland F Primary In Surfa High Satur Wate Sedir Under Wate Surface W Vater Tab Saturation ncludes of	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) or Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B6) dation Visible on Aeria or-Stained Leaves (B9) ervations: dater Present? Veresent? Veresent?	: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS
DROLOG Vetland F Primary In Satur Wate Sedir Drift Surfa Inunc Wate Surface W Vater Tab Saturation includes coscribe Re	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B4) (Nonrivement Deposits (B5) (Nonrivement Deposits (B6) (Nonrivement Deposits (: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS
DROLOG Vetland F Primary In Surfa High Satur Wate Sedir Under Wate Surface W Vater Tab Saturation ncludes of	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B4) (Nonrivement Deposits (B5) (Nonrivement Deposits (B6) (Nonrivement Deposits (: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS
DROLOG Vetland F rimary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Gield Obs Gurface W Vater Tab	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B4) (Nonrivement Deposits (B5) (Nonrivement Deposits (B6) (Nonrivement Deposits (: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS
DROLOG /etland F rimary In Surfa High Satur Sedir Drift Surfa Inunc Wate ield Obs aturation ncludes corribe Re	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B4) (Nonrivement Deposits (B5) (Nonrivement Deposits (B6) (Nonrivement Deposits (: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS
DROLOG /etland F rimary In Surfa High Satur Sedir Drift I Surfa Inunc Wate ield Obs aturface W /ater Tab aturation ncludes o	dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivement Deposits (B2) (Nonrivement Deposits (B3) (Nonrivement Deposits (B4) (Nonrivement Deposits (B5) (Nonrivement Deposits (B6) (Nonrivement Deposits (: one required erine) lonriverine) verine) Il Imagery (B) s N s N	; check all that a Salt Cru Salt Cru Biotic C Aquatic Hydrogo Oxidize Present Recent 7) Thin Mu Other (I	ust (B11) crust (B12) Invertebren Sulfided Rhizospice of Red Iron Reduck Surface Explain in (inches) (inches)	rates (B13) c Odor (C1) cheres alon uced Iron (uction in Til ce (C7) Remarks)	g Living C4) led Soils	Roots (C3) s (C6)	econdary Indicato Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Shallow Aquita FAC-Neutral T	rs (2 or more (B1) (Riverin posits (B2) (Ri (B3) (Riverin erns (B10) /ater Table (Cows (C8) ible on Aerial ard (D3) Test (D5)	required) e) iverine) ne) C2) Imagery (CS

		r Bank		City/County: Tulare	Sampling Date:
	South Water Banki	ng Authority			State: CA Sampling Point:
nvestigator(s):	Jim Gibson & Matt	Hirkala		Section, Townsl	hip, Range: Section 18, Township 23 South, Range 26 East
_andform (hillslop	e, terrace, etc.):	terrace		Local relief (cond	eave, convex, none): none Slope (%): <1
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:	_	35.931661 Long: -119.206065 Datum: NA
Soil Map Unit Nan		· · · · · · · · · · · · · · · · · · ·		ex, 0-2% slopes	
	rologic conditions on				rs x No (If no, explain in Remarks.)
•	•			•	
				significantly disturbed	
Are Vegetation	, Soli	, or Hydrology		naturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF	F FINDINGS - A	ttach site ma	o showing	sampling point l	locations, transects, important features, etc.
lydrophytic Vege	tation Present?	Yes N	lo		
Hydric Soil Preser	nt?	Yes N	lo X	Is the Sampled A	Yes NO Y
Vetland Hydrolog	v Present?	Yes N		within a Wetland	1f
Remarks:					
/CCTATION	llaa asiamtifi				
/EGETATION	- Use scientifi	c names or pro	ants.		
			Absolute	Dominant Indicato	Dominance Test worksheet:
Tree Stratum	(Plot size:)	% Cover	Species? Status	Number of Dominant Species
					That Are OBL, FACW, or FAC: 0 (A)
					Total Number of Dominant
					Species Across All Strata: 0 (B)
			-		
				=Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: N/A (A/I
					(***
Sanling/Shruh	Stratum (Plot size:)			Prevalence Index Worksheet:
	<u> </u>	/			
					_
					OBL species
					FACW species 0 x2 = 0
•					FAC species 0 x3 = 0
·					FACU species x4 = 0
				=Total Cover	UPL species x5 = 0
Herb Stratum	(Plot size: 4' x 4')				Column Totals: (A) (B)
					Prevalence Index = B/A = N/A
					_ Trevalence index = B/A =
					Trevalence index - D/A - N/A
					Hydrophytic Vegetation Indicators:
					Hydrophytic Vegetation Indicators:
					Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹
					Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting
					Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet)
					Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting
					Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine St	ratum (Plot size: _		0		Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Woody Vine St	<u>ratum</u> (Plot size: _		0	=Total Cover	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine St	ratum (Plot size: _		0	=Total Cover	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Woody Vine St	ratum (Plot size: _		0	=Total Cover	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
Woody Vine St	<u>ratum</u> (Plot size: _		0	=Total Cover	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic
Woody Vine St Was Bare Ground	ratum (Plot size: _	100	0	=Total Cover =Total Cover Biotic Crust	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
Woody Vine St Was Bare Ground	ratum (Plot size: _	100	0	=Total Cover =Total Cover Biotic Crust	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
Woody Vine St Was Bare Ground	ratum (Plot size: _	100	0	=Total Cover =Total Cover Biotic Crust	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
Woody Vine St Was Bare Ground	ratum (Plot size: _	100	0	=Total Cover =Total Cover Biotic Crust	Hydrophytic Vegetation Indicators: N/A Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptationd¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation

Project/Site: Pixley Groundwa	ater Bank		City/County:	Tulare		Samp	oling Date: _	January 29, 2015
Applicant/Owner: South Water Bar	nking Authority				State: CA	Samp	ling Point: _	6
Investigator(s): Jim Gibson & Ma	att Hirkala		Section	n, Township	, Range: Section 17, To	wnship 23 So	outh, Range	26 East
Landform (hillslope, terrace, etc.):	terrace		_ Local re	lief (concav	e, convex, none):	none	Slope	(%): <u><1</u>
Subregion (LRR): Mediterranean C	alifornia (LRR C)	Lat:		35	.924455 Long:	-119.19	97093 Da	atum: NAD83
Soil Map Unit Name: 108 - Col	lpien loam, 0-2% slo	opes			NWI Classificat	ion: N/A		
Are climatic / hydrologic conditions	on the site typical for	or this time of	year?	Yes_	x No	(If no, ex	xplain in Rem	narks.)
Are Vegetation X, Soil	, or Hydrology		significantly	disturbed?	Are "Normal Circums	tances" prese	ent? Yes _	x No
Are Vegetation, Soil	, or Hydrology		naturally pro	blematic?	(If needed, explain an	y answers in	Remarks.)	
SUMMARY OF FINDINGS -	Attach site ma	p showing	ı sampling	point lo	cations, transects, i	mportant f	eatures, e	tc.
Hydrophytic Vegetation Present?	Yes I	No						
Hydric Soil Present?	Yes I	No X		mpled Are	a Yes	No	X	
Wetland Hydrology Present?	Yes I	No X	within a	Wetland?				
Remarks:								
VEGETATION - Use scient	ific names of p	lants.						
		Absolute	Dominant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Sp	pecies		
1.	/	-			That Are OBL, FACW,		N/A	(A)
2.					Total Number of Domin	ant		(' '
3.		-			Species Across All Stra		N/A	(B)
4.					Percent of Dominant Sp	necies		`
			=Total Cover		That Are OBL, FACW,		N/A	(A/B)
					, ,			` ,
Sapling/Shrub Stratum (Plot size	e:)				Prevalence Index Wor	ksheet:		
1					Total % Cover of:		Multiply by	:
2					OBL species 0	x1 =	0	
3					FACW species0	x2 =	0	
4					FAC species 0	x3 =	0	
5					FACU species 0		0	
			=Total Cover	r	UPL species 0		0	
Herb Stratum (Plot size: 4' x 4	')			= 4 01 1	Column Totals: 0		0	(B)
1. Hordeum murinum		25	Yes	FACU	Prevalence Index = B	/A =	N/A	
2. Urtica dioica		10	Yes	FACU	Hadarahada Masakada			
 Sisymbrium altissimum Vicia sp. 		<u>10</u> 10	Yes Yes	FACU	Hydrophytic Vegetation N/A Dominance Te		:	
4. <i>Vicia</i> sp. 5. <i>Lathyru</i> s sp.		10	Yes		N/A Prevalence Inc			
			163					
					Morphological data in Remar			
0		-			Problematic H			
0		65	=Total Cover			, a. op., , a. o	,gotalio (<i>_</i>	τρ.σ)
Woody Vine Stratum (Plot size:)		. 0.0.	•	¹ Indicators of hydric soil			ust
1					be present, unless distu	irbed or probl	ematic.	
2					Hydrophytic			
	0.5		=Total Cover		Vegetation	.,		
% Bare Ground in Herb Stratum	35	% Cover of	BIOTIC Crust	0	Present?	Yes	No_	
Remarks:								

chcles) Color (moist)	Depth								onfirm the absen			
Joen Joen Joen Joen Joen Joen Joen Joen	Борин			-	Red	ox Feat			•			
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosci (A1) Sardy Redox (S5) 1 om Muck (A9) (LRR C) Histosci (A1) Stripped Matrix (S8) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyde Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Service (A12) Sandy Mucky Mineral (S1) Secondary Indicators (2 or more required) weltand hydrology Indicators: timary Indicators (Minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water Marky (S1) (Minery Minery Mucky Mi	(inches)		:) %	Color (n	noist)	%	Type ¹	Loc ²	Texture		Remarks	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histosol (A2) Sitripped Matrix (S6) Histosol (A2) Sitripped Matrix (S6) Black Histis (A3) Loamy Mucky (Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sestrictive Layer (If present): pre: ppth (inches): ppt: ppth (inches): Surface Water (A1) Salt Crust (B11) Saturation (A3) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Norriverine) Sediment Deposits (B2) (Norriverine) Hydrogen Sulfide Color (C1) Sediment Deposits (B3) (Norriverine) Presence of Reduced Intin Remarks) Thin Muck Surface (A12) Sediment Deposits (B3) (Norriverine) Presence of Reduced Intin Remarks) Water Marks (B1) (Norriverine) Presence of Reduced Intin Remarks) Water Marks (B1) (Norriverine) Presence of Reduced Intin Remarks) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (A2) Drift Deposits (B3) (Norriverine) Presence of Reduced Intin Remarks) Thin Muck Surface (C6) Surface Soil Crasks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation (A2) Autiliary (A2) Saturation (A3) Aquatic Invertebrates (B3) Oxidized Soil Crasks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquatical (C3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes No x Depth (inches): (ater Table Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:) - 12	7.5YR3/3	100						loam			
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Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A70) (LRR B) Black Histic (A3) Learny Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Present; Sandy Mucky Mineral (S1) Vernal Pools (F9) Present; Unless disturbed or problematic. Betrictive Layer (if present): The present of the	Type: C=C	concentration, D=De	pletion, RM=Re	duced Matri	x, CS=Co	vered or (Coated Sar	d Grains.	'Location: PL=Po	re Lining, M=Matrix		
Histic Epipedon (A2)	Hydric Soi	il Indicators: (Ap	plicable to al	I LRRs, u	nless oth	nerwise	noted.)		Indicators for	Problematic Hyd	Iric Soils ³ :	
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Present? Present (unless disturbed or problematic. Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): ppe: ppth (inches): ppth (inches): Surface Water (A1) Secondary Indicators (2 or more required) Hydric Soil Present? Yes No X adjusted to C1) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Injuncted Surface Soil Cracks (B8) Recent Iron Reduction in Tilled Soils (C6) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X Depth (inches): urface Water Prese	Histo	sol (A1)			Sandy R	edox (S	5)		1 cm Muc	k (A9) (LRR C)		
Hydrogen Sulfide (A4)	Histic	Epipedon (A2)			Stripped	Matrix (S6)		2 cm Muc	k (A10) (LRR B)		
Hydrogen Sulfide (A4)	— Black	Histic (A3)			Loamy M	lucky Mi	neral (F1)		Reduced	Vertic (F18)		
Stratified Layers (A5) (LRR C)					Loamy G	Sleyed M	latrix (F2)					
1 cm Muck (A9) (LRR D)		-	LRR C)			•	, ,)	
Depleted Below Dark Surface (A11)										,		
Thick Dark Surface (A12) Redox Depressions (F8) Sindicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Wernal Pools (F9) Wetand hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if present):							` ')				
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if present): ### Hydric Soil Present? Yes No x Pool Present No x	Thick	Dark Surface (A1	12)		•		•		- المساة	otoro of budges	tio vogototion and	
Sandy Gleyed Matrix (S4) unless disturbed or problematic. sestrictive Layer (if present):												
estrictive Layer (if present): //pe:						`	•					
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PROLOGY Vetland Hydrology Indicators:	opui (iiioi	165).						Hy	dric Soil Presen	t? Yo	es No	X
Retland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Satt Crust (B12) Saturation (A3) Water Marks (B1) (Riverine) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Present? Yes No Depth (inches): Vater Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	marks:		ompacted grav	el.				Ну	dric Soil Presen	t? Y	es No _	X
Surface Water (A1)	marks:		ompacted grav	el.				Ну	dric Soil Presen	t? Y	es No _	X
Surface Water (A1)	marks: soil samp	ole taken due to co	ompacted grav	el.				Ну	dric Soil Presen	1? Y	es No_	X
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) 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) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Feld Observations: Vater Table Present? Ves No X Depth (inches): Vater Table Present? Yes No X Depth (inches): Vater Table Present? Yes No X Depth (inches): Vater Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	marks: soil samp	ole taken due to co		el.				Ну	dric Soil Presen	t? Y	es No_	<u> </u>
Saturation (A3)	marks: soil samp DROLOG Vetland H	ole taken due to co	ors:		all that ap	oply)		Ну				
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) 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) Feld Observations: Variater Table Present? Yes No x Depth (inches): Vater Table Present? Yes No x De	marks: soil samp DROLOG Vetland H	ole taken due to co Y lydrology Indicat dicators (minimum	ors:					Н		ondary Indicators	(2 or more required)	
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Facer Table Present? Yes No Depth (inches): Atturation Present? Yes No Depth (inches): Atturation Present? Yes No Depth (inches): Depth (inc	marks: soil samp DROLOG Vetland H Primary Ind Surfa	Y lydrology Indicat dicators (minimum ce Water (A1)	ors:	ed; check	Salt Crus	st (B11)	(t)	Н		ondary Indicators Water Marks (B	(2 or more required)	
Drift Deposits (B3) (Nonriverine)	DROLOG Vetland Herimary Ind Surfa High	Y Iydrology Indicat dicators (minimum ce Water (A1) Water Table (A2)	ors:	ed; check	Salt Crus Biotic Cr	st (B11) ust (B12	•			ondary Indicators Water Marks (B Sediment Depos	(2 or more required) 1) (Riverine) sits (B2) (Riverine)	
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	Primary Ind Satur Wate Sedir Drift I Surfa Inund Wate Field Obse Surface W Water Tab Saturation (includes c	le taken due to consider taken due to consider taken due to consider taken due to consider taken dicators (minimum ce Water (A1) Water Table (A2) Pation (A3) For Marks (B1) (Norment Deposits (B3) (Norment Deposits (B3)) For Marks (B1) (Norment Deposits (B1)) For Marks (B1) (Norment Deposits	ors: n of one require nriverine) () (Nonriverine) 6) erial Imagery (B9) Yes Yes Yes Yes	ed; check [B7) Nox Nox Nox	Salt Crus Biotic Cr Aquatic I Hydrogel Oxidized Presence Recent II Thin Muc Other (E: Depth Depth Depth	st (B11) ust (B12) nvertebr n Sulfide Rhizosp e of Red ron Red ck Surfac xplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Sec ————————————————————————————————————	ondary Indicators Water Marks (B Sediment Deposits (E Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Shallow Aquitare FAC-Neutral Tes	(2 or more required) 1) (Riverine) sits (B2) (Riverine) ns (B10) ter Table (C2) s (C8) le on Aerial Imagery d (D3) st (D5))
	Metland H Primary Inc Satur Wate Sedir Drift I Surfa Inund Wate Field Obse Surface W Water Tab Saturation (includes conscribe Received)	le taken due to consider taken due to consider taken due to consider taken due to consider taken dicators (minimum ce Water (A1) Water Table (A2) Pation (A3) For Marks (B1) (Norment Deposits (B3) (Norment Deposits (B3)) For Marks (B1) (Norment Deposits (B1)) For Marks (B1) (Norment Deposits	ors: n of one require nriverine) () (Nonriverine) 6) erial Imagery (B9) Yes Yes Yes Yes	ed; check [B7) Nox Nox Nox	Salt Crus Biotic Cr Aquatic I Hydrogel Oxidized Presence Recent II Thin Muc Other (E: Depth Depth Depth	st (B11) ust (B12) nvertebr n Sulfide Rhizosp e of Red ron Red ck Surfac xplain in (inches) (inches)	rates (B13 e Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks)) ng Living (C4) illed Soil	Sec ————————————————————————————————————	ondary Indicators Water Marks (B Sediment Deposits (E Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Shallow Aquitare FAC-Neutral Tes	(2 or more required) 1) (Riverine) sits (B2) (Riverine) ns (B10) ter Table (C2) s (C8) le on Aerial Imagery d (D3) st (D5)) (C9)
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Applicant/Owner: Sc nvestigator(s): Jir andform (hillslope, t Subregion (LRR): Ma Soil Map Unit Name: Are climatic / hydrolo	m Gibson & Matt	•				State: CA	Sampling Po	int:
andform (hillslope, t Subregion (LRR): Me Soil Map Unit Name:		Hirkala						
Subregion (LRR): <u>Me</u> Soil Map Unit Name:	errace, etc.):			Section, T	Township, I	Range: Section 16, T	Township 23 South, Ra	ange 26 East
Soil Map Unit Name:		terrace		Local relief	f (concave,	convex, none):	none S	Slope (%): <1
Soil Map Unit Name:	editerranean Calif	fornia (LRR C)	Lat:	_	35.9	927522 Long:	-119.177631	Datum: NAD83
•		o-Calgro, saline-s						
tie ciimatic / myuroic							(If no, explain ir	Pomarke)
\/t-t:	•	٠.		•				
Are Vegetation							nstances" present?	
Are Vegetation	, Soil	_, or Hydrology	-	naturally proble	ematic?	(if needed, explain a	any answers in Remark	(S.)
SUMMARY OF F	INDINGS - A	ttach site ma	p showing	sampling p	oint loca	ations, transects,	important feature	es, etc.
lydrophytic Vegetati	on Present?	Yes N	No					
Hydric Soil Present?		Yes N	No X	Is the Samp	•	Yes	No x	
Vetland Hydrology P	resent?	Yes N		within a W	vetiano?			
Remarks:								
	llas asiantifi							
/EGETATION –	Use scientific	names of pi						
			Absolute		t a to a	Dominance Test wor		
Tree Stratum (P	lot size:)	% Cover	Species? St		Number of Dominant S		
•						That Are OBL, FACW,	, or FAC:	0 (A)
					-	Total Number of Domi	inant	
						Species Across All Str	rata:	0 (B)
						Percent of Dominant S		``,
				=Total Cover		That Are OBL, FACW,		I/ A (A/B)
						, , ,		` ′
Sapling/Shrub Stra	atum (Plot size:)				Prevalence Index Wo	orksheet:	
	(0. 0.20	/				Total % Cover of:		ply by:
					—— I ,	_		<u>ριγ υγ.</u> 0
						· · · · · · · · · · · · · · · · · · ·	· —	0
·								0
•				T-1-1-0				0
			-	=Total Cover				0 (B)
Herb Stratum (P	lot size: 4' x 4')				'		`` /	0 (B)
·						Prevalence Index =	B/A = N/A	
·								
•						Hydrophytic Vegetati	ion Indicators:	
						N/A Dominance T	Γest is >50%	
·						Prevalence In	ndex is ≤3.0 ¹	
						Morphologica	al Adaptationd ¹ (Provid	de supporting
							arks or on a separate s	
							Hydrophytic Vegetatio	•
·			0	=Total Cover				(=
Woody Vine Stratu	<u>um</u> (Plot size:)		- Total Covel		¹ Indicators of hydric so		
·					ŀ	be present, unless dist	turbed or problematic.	
			-			Hydrophytic		
				=Total Cover		Vegetation		
2.		100	% Cover of E	Biotic Crust		Present?	Yes	No
	Herb Stratum							
% Bare Ground in			on was prese	nt			_	
			on was prese	nt.				
2			on was prese	nt.				
% Bare Ground in			on was prese	nt.				

Profile Des	scription: (Describe	to the depth	needed to	document	the indica	tor or c	onfirm the absence	e of indicators.)			
Depth	Matrix			Redox Fea	tures						
(inches)	Color (moist)	% (Color (moist	:) %	Type ¹	Loc ²	Texture		Remarks		
0 - 12	10YR3/4	100					loam				
							_				
¹ Type: C=C	oncentration, D=Depletion	on, RM=Reduc	ed Matrix, CS	S=Covered or	Coated San	d Grains	. ² Location: PL=Por	e Lining, M=Matrix.			
Lludria Cai	I Indicatora: (Annlic	able to all I I	ODo unico	o othomuios	noted \		Indicators for I	Problematic Hydri	o Soilo ³ :		
=	I Indicators: (Applic	able to all Li						Problematic Hydri	C Solls :		
	sol (A1)			dy Redox (S				(A9) (LRR C)			
	Epipedon (A2)			oped Matrix				(A10) (LRR B)			
	Histic (A3)			my Mucky M				/ertic (F18)			
	ogen Sulfide (A4) fied Layers (A5) (LRR) (C)		my Gleyed N leted Matrix				nt Material (TF2) plain in Remarks)			
	Muck (A9) (LRR D)	()		ox Dark Sur			Other (LX)	naiii iii Neiliaiks)			
	eted Below Dark Surfa	ιοο (Λ11)		leted Dark S	` '	`					
	Dark Surface (A12)	ice (ATT)		ox Depressi		,	_				
	y Mucky Mineral (S1)		· · · · · · · · · · · · · · · · · · ·	nal Pools (F				ators of hydrophytic			
	y Gleyed Matrix (S4)			iai i 00i3 (i .	3)			land hydrology mus nless disturbed or p			
	Layer (if present):						ui ui	ileas disturbed or p	nobicinatio	•	
	Layer (II present).										
Type:			_								
Depth (inch	nes):		_			-	lydric Soil Present	? Yes	<u> </u>	No	<u>X</u>
Remarks:	la talcam dua ta aaman.										
No soli samp	le taken due to compa	acted gravei.									
HYDROLOG	Υ										
Wetland H	ydrology Indicators:										
Primary Inc	dicators (minimum of	one required;	check all th	at apply)			Seco	ondary Indicators (2	or more re	equired)	
Surfa	ce Water (A1)	-	Salt	Crust (B11))			Water Marks (B1)	(Riverine)		
· · · · · · · · · · · · · · · · · · ·	Water Table (A2)		Biot	ic Crust (B1	2)			Sediment Deposit			
Satur	ation (A3)		Aqu	atic Inverteb	orates (B13)		Drift Deposits (B3	(Riverine)	
Wate	r Marks (B1) (Nonrive	erine)	— Hyd	rogen Sulfid	le Odor (C1)		Drainage Patterns	(B10)		
Sedin	nent Deposits (B2) (N	onriverine)	Oxio	dized Rhizos	spheres alo	ng Livin	g Roots (C3)	Dry-Season Wate	r Table (C2	<u>'</u> .)	
Drift [Deposits (B3) (Nonriv	erine)	Pres	sence of Re	duced Iron	(C4)	<u> </u>	Crayfish Burrows	(C8)		
Surfa	ce Soil Cracks (B6)		Rec	ent Iron Red	duction in T	illed So	ils (C6)	Saturation Visible	on Aerial II	magery (0	C9)
Inund	ation Visible on Aeria	l Imagery (B7) Thir	Muck Surfa	ace (C7)			Shallow Aquitard	(D3)		
Wate	r-Stained Leaves (B9))	Oth	er (Explain iı	n Remarks))		FAC-Neutral Test	(D5)		
Field Obse	ervations:										
Surface Wa	ater Present? Yes	s No	<u>x</u> D	epth (inches	s):						
Water Tabl	e Present? Yes	s No	<u>x</u> D	epth (inches	s):						
Saturation	Present? Yes	s No	<u>x</u> D	epth (inches	s):		Wetland Hydrol	ogy Present?	Yes	No	X
•	apillary fringe)										
Describe Red	corded Data (stream g	gauge, monito	ring well, a	erial photos,	previous ir	nspectio	ns), if available:				
Remarks:											

Project/Site: Pixiey Groundwat	er Bank		City/County:	Tulare Col	unty		_ Samp	oling Date:	11/01/16
Applicant/Owner: South Valley Water	er Banking Authority	У			Sta	te: CA	Samp	oling Point:	8
Investigator(s): M. Hirkala			Section	n, Township	, Range: Sct	ion 14, Towns	nip 23 Soı	uth, Range 25	East
Landform (hillslope, terrace, etc.):	low terrace (almor	nd orchard)	_ Local re	elief (concav	e, convex, nor	ne):	none	Slope ((%): <1
Subregion (LRR): Mediterranean Ca	ilifornia (LRR C)	Lat:		35	5.931097 Lo	ng:	-119.2	24141 Da	tum: NAD83
Soil Map Unit Name: 124 - Hant	ford sandy loam, 0 t	o 2 percent	slopes		NWI	Classification:		N/A	
Are climatic / hydrologic conditions o	n the site typical for	this time of	year?	Yes	X	No	(If no, e	xplain in Rem	arks.)
Are Vegetation X, Soil	, or Hydrology		significantly	disturbed?	Are "Norm	al Circumstan	ces" prese	ent? Yes	X No
	, or Hydrology					explain any ai	nswers in	Remarks.)	
SUMMARY OF FINDINGS -	Attach site map	showing	sampling	point lo	cations, tra	nsects, imp	ortant f	eatures, et	c.
Hydrophytic Vegetation Present?	Yes N	o X							
Hydric Soil Present?	Yes N			ampled Are	Y	es	No	X	
Wetland Hydrology Present?	Yes N		within a	a Wetland?			- —		
Remarks: Data point was taken with	·		" (almand ar	ob ord)					
VEGETATION – Use scientif	fic names of pla	ants.							
		Absolute	Dominant	Indicator	Dominance	Test workshe	ot:		
Total Observation (Distriction	001.001	% Cover	Species?	Status		ominant Speci			
Tree Stratum (Plot size:	20'X20'	25	· Y	UPL		L, FACW, or F		•	(4)
1. <u>Prunus dulcis</u>				UFL	Total Niumba	r of Dominant		0	(A)
2						er of Dominant oss All Strata:		4	(D)
3								1	(B)
4		25	=Total Cove			ominant Speci L, FACW, or F		0%	(A/B)
			. 0.0						(/ 1.5/
Sapling/Shrub Stratum (Plot size	:)					Index Worksh	eet:		
1						Cover of:	—	Multiply by:	
2					OBL species		_x1 =	0	
3					FACW speci		_x2 =	0	
4					FAC species		_x3 =	0	
5			T-1-1-0		FACU specie		_x4 =	0	
Harib Chastrina (Diataina) 4	L. 41	0	=Total Cove	r	UPL species	-	_x5 =	100	(D)
	'x4'				Column Tota		_(A)	100	(B)
1					Prevalence	e Index = B/A =	·	5.0	
2 3.				-	Lludrophytic	Vocatation			
3 4.						: Vegetation In minance Test i		7-	
5.						valence Index			
6.								l (D	
· ————————————————————————————————————						rphological Ada a in Remarks o			
7 8.						blematic Hydro		. ,	
o		0	=Total Cove			on the state of th	spriyao ve	Agottation (EX	piani)
Woody Vine Stratum (Plot size: _1.			Total Cove	'		f hydric soil an ınless disturbe			ıst
2					Hydrophytic				
		0	=Total Cove	r	Vegetation	•			
% Bare Ground in Herb Stratum	100	% Cover of I	Biotic Crust	0	Present?		Yes	No	x
Remarks:			•		<u>I</u>				

					0/	Typo	Loc ²	Toydura			
nches) -16	Color (moist) 10Y/R 4/3	<u>%</u> 	Color (m	ioist)	<u>%</u>	Type ¹	LOC	Texture loam	<u> </u>	Remarl	KS
10	101713	100						IOaiii			
											
								-			
								•			
								-			
								-			
								-			
ype: C=Co	ncentration, D=Depletion	on, RM=Redu	uced Matrix	c, CS=Cc	vered or 0	Coated Sand	Grains.	² Location: PL:	=Pore Lining, M=M	atrix.	
vdric Soil	Indicators: (Applic	able to all	I RRe un	aloss of	harwisa	noted)		Indicators	for Problematic	Hydric Soils	3.
Histos		able to all			Redox (S				Muck (A9) (LRR (-	•
	Epipedon (A2)			-	Matrix (•			Muck (A3) (LRR Muck (A10) (LRR	•	
	Histic (A3)					neral (F1)		<u> </u>	ced Vertic (F18)	٥,	
	gen Sulfide (A4)			-	-	atrix (F2)			arent Material (TI	=2)	
	ed Layers (A5) (LRR	(C)			d Matrix ((Explain in Rema		
	eu Layers (A3) (LKK /luck (A9) (LRR D)	. •,			Dark Surfa				(Explain in Nema	11.0)	
	ed Below Dark Surfa	ce (Δ11)				urface (F7)					
	ed Below Bark Suna Dark Surface (A12)	(A11)			Dark St Depressio			•			
	Mucky Mineral (S1)				Pools (F9)				ndicators of hydro		
′	Gleyed Matrix (S4)			· Ciliai F	3013 (1 9	,			wetland hydrolog unless disturbe		
	Layer (if present):								unicss disturbe	d of problems	atio.
vne.											
	<i>36).</i>						Hv	dric Soil Bros	cont?	Vos	No
Depth (inche	es):		<u> </u>				Нус	dric Soil Pres	sent?	Yes	No
Depth (inche	es):						Нус	dric Soil Pres	sent?	Yes	No
Depth (inche marks:	,						Нус	dric Soil Pres	sent?	Yes	No
Depth (inche marks:							Нус				
Depth (incho marks: DROLOGY Vetland Hy Primary Indi	rdrology Indicators:		•		,		Нус		sent?		
DROLOGY Vetland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of e e Water (A1)		;	Salt Cru	st (B11)		Нус		Secondary Indica		e required)
DROLOGY Vetland Hy Primary Indi Surfac	rdrology Indicators:		;	Salt Cru	,)	Нус		Secondary Indica Water Marks Sediment Do	tors (2 or mor s (B1) (Riveri i eposits (B2) (I	e required) ne) Riverine)
DROLOGY Vetland Hy marks: Surfac High V Satura	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3)	one required	;	Salt Cru Biotic C Aquatic	st (B11) rust (B12 Invertebr	ates (B13)	Нус		Secondary Indica Water Marks Sediment Do	tors (2 or mor s (B1) (River i eposits (B2) (I s (B3) (Rive ri	e required) ne) Riverine)
DROLOGY Vetland Hy Surfac High V Satura Water	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive	one required	; ; ;	Salt Cru Biotic C Aquatic Hydroge	st (B11) rust (B12 Invertebr en Sulfide	ates (B13) Odor (C1)		- - -	Secondary Indica Water Marks Sediment De Drift Deposit	tors (2 or mores (B1) (Rivering (B2) (Rivering (B3) (Rivering (B10)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim	rdrology Indicators: cators (minimum of of the Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive on the Deposits (B2) (N	one required erine) onriverine)	; ; ;	Salt Cru Biotic Co Aquatic Hydroge Oxidized	st (B11) rust (B12 Invertebr en Sulfide d Rhizosp	rates (B13) Odor (C1) oheres alon	g Living	- - -	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa	tors (2 or mores (B1) (River ial eposits (B2) (River iatterns (B10) Water Table (B10)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive	one required erine) onriverine)		Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc	st (B11) rust (B12 Invertebren Sulfide d Rhizospee of Red	rates (B13) e Odor (C1) oheres alon uced Iron (G	g Living C4)	<u>\$</u> 	Secondary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur	tors (2 or mores (B1) (Rivering tensits (B2) (Rivering tensits (B10)) Water Table (rows (C8)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim Drift D	rdrology Indicators: cators (minimum of of the Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive on the Deposits (B2) (N	one required erine) onriverine)		Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc	st (B11) rust (B12 Invertebren Sulfide d Rhizospee of Red	rates (B13) Odor (C1) oheres alon	g Living C4)	<u>\$</u> 	Secondary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur	tors (2 or mores (B1) (River ial eposits (B2) (River iatterns (B10) Water Table (B10)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim Drift D Surfac	rdrology Indicators: cators (minimum of of the Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (Nonrive eposits (B3) (Nonrive eposits (B3) (Nonrive eposits (B3) (Nonrive eposits (B3) (Nonrive	one required erine) onriverine) erine)		Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent	st (B11) rust (B12 Invertebren Sulfide d Rhizospee of Red	ates (B13) Odor (C1) Oheres alon uced Iron (Guction in Til	g Living C4)	<u>\$</u> 	Secondary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur	tors (2 or mores (B1) (River ing (B2) (River ing (B3) (River ing (B10)) Water Table (Tows (C8)) isible on Aeria	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Surfac High V Satura Water Sedim Drift D Surfac Inunda	rdrology Indicators: cators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6)	erine) onriverine) erine) I Imagery (E		Salt Cru Biotic Cl Aquatic Hydroge Oxidized Presend Recent I	st (B11) rust (B12) Invertebren Sulfided Rhizospee of Redulation Reduck Surface	ates (B13) Odor (C1) Oheres alon uced Iron (Guction in Til	g Living C4)	<u>\$</u> 	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V	tors (2 or mores (B1) (Rivering (B3) (Rivering (B10)) Water Table (Table (C8)) isible on Aeria (D3)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim Drift D Surfac Inunda Water-	rdrology Indicators: cators (minimum of de Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9)	erine) onriverine) erine) I Imagery (E		Salt Cru Biotic Cl Aquatic Hydroge Oxidized Presend Recent I	st (B11) rust (B12) Invertebren Sulfided Rhizospee of Redulation Reduck Surface	ates (B13) c Odor (C1) oheres alon uced Iron (ouction in Till ce (C7)	g Living C4)	<u>\$</u> 	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	tors (2 or mores (B1) (Rivering (B3) (Rivering (B10)) Water Table (Table (C8)) isible on Aeria (D3)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Surfac High V Satura Water Sedim Drift D Surfac Inunda Water- Gield Obser	rdrology Indicators: cators (minimum of de Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9)	erine) onriverine) erine) I Imagery (E		Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebren Sulfide d Rhizospee of Reddiron Reddick Surface	ates (B13) c Odor (C1) oheres alon uced Iron (ouction in Till ce (C7)	g Living C4) ed Soils	<u>\$</u> 	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	tors (2 or mores (B1) (Rivering (B3) (Rivering (B10)) Water Table (Table (C8)) isible on Aeria (D3)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim Drift D Surfac Inunda Water- Sield Obser	rdrology Indicators: cators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (Noprive eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria estained Leaves (B9) rvations: ter Present? Yes	erine) onriverine) erine) I Imagery (E	37)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	st (B11) rust (B12) Invertebren Sulfide d Rhizospe of Red Iron Reduck Surface Explain in (inches): (inches):	ates (B13) Podor (C1) Poheres alon Puced Iron (I Puction in Till Poe (C7) Remarks)	g Living C4) ed Soils	<u>\$</u> 	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	tors (2 or mores (B1) (Rivering (B3) (Rivering (B10)) Water Table (Table (C8)) isible on Aeria (D3)	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Primary Indi Surfac High V Satura Water Sedim Drift D Surfac Inunda Water- Sield Obser Surface Wa Vater Table Saturation F	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes eresent? Yes	erine) onriverine) erine) I Imagery (E	37)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	st (B11) rust (B12) Invertebren Sulfide d Rhizospee of Red Iron Reduck Surface Explain in (inches):	ates (B13) Podor (C1) Poheres alon Puced Iron (I Puction in Till Poe (C7) Remarks)	g Living C4) ed Soils	Roots (C3)	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	tors (2 or mores (B1) (River ial eposits (B2) (River ial tterns (B10) Water Table (Table or Aerial tterns (C8) (C8) (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	e required) ne) Riverine) ine)
DROLOGY Vetland Hy Vetland Hy Primary Indi Surfac High V Satura Water Sedim Drift D Surfac Inunda Water- Sield Obser Surface Wa Vater Table Saturation F includes ca	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes pillary fringe)	erine) onriverine) erine) I Imagery (E	37)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E Depth Depth Depth	st (B11) rust (B12) Invertebren Sulfide d Rhizospe of Red iron Reduck Surface Explain in (inches): (inches):	ates (B13) c Odor (C1) cheres alon uced Iron (i uction in Til ce (C7) Remarks)	g Living C4) ed Soils	Roots (C3)	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	tors (2 or mores (B1) (River ial eposits (B2) (River ial tterns (B10) Water Table (Table or Aerial tterns (C8) (C8) (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	e required) ne) Riverine) ine) (C2) al Imagery (
Depth (incher marks: DROLOGY Wetland Hy Primary Indi Surfac High W Satura Water Sedim Drift D Surfac Inunda Water- Field Obset Surface Wa Water Table Saturation Fincludes ca	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes eresent? Yes	erine) onriverine) erine) I Imagery (E	37)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E Depth Depth Depth	st (B11) rust (B12) Invertebren Sulfide d Rhizospe of Red iron Reduck Surface Explain in (inches): (inches):	ates (B13) c Odor (C1) cheres alon uced Iron (i uction in Til ce (C7) Remarks)	g Living C4) ed Soils	Roots (C3)	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	tors (2 or mores (B1) (River ial eposits (B2) (River ial tterns (B10) Water Table (Table or Aerial tterns (C8) (C8) (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	e required) ne) Riverine) ine) (C2) al Imagery (
Primary Indi Surfac High W Satura Water Sedim Drift D Surfac Inunda Water- Field Obset Surface Wa Water Table Saturation Fincludes ca	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes pillary fringe)	erine) onriverine) erine) I Imagery (E	37)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E Depth Depth Depth	st (B11) rust (B12) Invertebren Sulfide d Rhizospe of Red iron Reduck Surface Explain in (inches): (inches):	ates (B13) c Odor (C1) cheres alon uced Iron (i uction in Til ce (C7) Remarks)	g Living C4) ed Soils	Roots (C3)	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	tors (2 or mores (B1) (River ial eposits (B2) (River ial tterns (B10) Water Table (Table or Aerial tterns (C8) (C8) (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	e required) ne) Riverine) ine) (C2) al Imagery (
Depth (inche marks: DROLOGY Wetland Hy Primary Indi Surfac High W Satura Water Sedim Drift D Surfac Inunda Water- Field Obset Surface Wa Water Table Saturation F includes ca scribe Reco	rdrology Indicators: cators (minimum of e e Water (A1) Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes pillary fringe)	erine) onriverine) erine) I Imagery (E	37)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E Depth Depth Depth	st (B11) rust (B12) Invertebren Sulfide d Rhizospe of Red iron Reduck Surface Explain in (inches): (inches):	ates (B13) c Odor (C1) cheres alon uced Iron (i uction in Til ce (C7) Remarks)	g Living C4) ed Soils	Roots (C3)	Secondary Indica Water Marks Sediment Do Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	tors (2 or mores (B1) (River ial eposits (B2) (River ial tterns (B10) Water Table (Table or Aerial tterns (C8) (C8) (C8) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	e required) ne) Riverine) ine) (C2) al Imagery (

Project/Site:	Pixley Groundwater	Bank		City/County:	Tulare Cou	ınty		Sam	npling Date:	11/01/16
Applicant/Owner:	South Valley Water	Banking Authority	У			Sta	ate: CA	Sam	pling Point:	9
Investigator(s):	M. Hirkala			Section	n, Township	, Range: Sc	tion 14, Tow	nship 23 Sc	outh, Range 25	East
Landform (hillslop	e, terrace, etc.):	low terrace (falle	ow field)	_ Local re	lief (concave	e, convex, no	ne):	none	Slope ((%): <1
Subregion (LRR):	Mediterranean Calif	fornia (LRR C)	Lat:		35	5.924455 Lo	ong:	-119.2	233132 Da	tum: NAD83
Soil Map Unit Nar	ne: 124 - Hanfo	rd sandy loam, 0 t	o 2 percent	slopes		NW	l Classificati	on:	N/A	
Are climatic / hydr	ologic conditions on	the site typical for	r this time of	year?	Yes_	X	No	(If no, e	explain in Rema	arks.)
Are Vegetation	, Soil	_, or Hydrology		significantly	disturbed?	Are "Norm	nal Circumst	tances" pres	sent? Yes	X No
Are Vegetation	, Soil	_, or Hydrology		naturally pro	blematic?	(If needed	, explain an	y answers ir	n Remarks.)	
SUMMARY OF	FINDINGS - A	ttach site map	showing	g sampling	point loc	cations, tra	ınsects, iı	mportant	features, et	c.
Hydrophytic Vege	tation Present?	YesN	o X							
Hydric Soil Prese		Yes N			mpled Area	Y	res .	No	X	
Wetland Hydrolog	y Present?	Yes N	o X	within a	Wetland?					
	oint was taken within									
VEGETATION	- Ose scientino	names of pie	iiito.							
			Absolute		Indicator	Dominance				
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of E				
1						That Are OB	BL, FACVV, C	or FAC:	1	(A)
2						Total Number				
3						Species Acr	oss All Strat	ta:	2	(B)
4						Percent of D				
			0	=Total Cover	·	That Are OB	BL, FACW, o	or FAC:	50%	(A/B)
0 1' (0	O(1 (D)-1	`			ŀ	B	Landar Miland			
	Stratum (Plot size: _)				Prevalence		ksneet:	N Audtiolar barr	
1						OBL species	6 Cover of: s 0	x1 =	Multiply by:	
3.				· ———		FACW species		xı = x2 =	0	
4						FAC species			60	
5.						FACU speci			4	
-		-	0	=Total Cover	-	UPL species			150	
Herb Stratum	(Plot size: 4'x	4'		•		Column Tota		(A)	214	(B)
1. Brumus diar		_	30	Υ	UPL	Prevalenc	e Index = B			
2. Rumex pulci	her		15	Υ	FAC					
3. Distichlis spi			5	N	FAC	Hydrophytic	c Vegetatio	n Indicator	s:	
4. <u>Lactuca serr</u>	riola		1	N	FACU		minance Te			
5						Pre	evalence Inc	dex is ≤3.0¹		
6									d ¹ (Provide sup	porting
									eparate sheet)	
8						Pro	oblematic H	ydrophytic V	egetation ¹ (Exp	olain)
	ratum (Plot size:		51	=Total Cover		¹ Indicators of be present, i			d hydrology mu olematic.	rst
2.						Uvdrophyti	•			
			0	=Total Cover		Hydrophytic Vegetation				
% Bare Ground	d in Herb Stratum	50	% Cover of	Biotic Crust	0	Present?		Yes	No	X
Remarks:										

Hydric Soi Histos Histic Black	Matri Color (moist) 10Y/R 4/3 Concentration, D=Dep	<u>%</u> 100	Color (n		%		Loc ²	Texture loam		Remarks	8	
1-15 Type: C=C Hydric Soi Histor Histor Black	10Y/R 4/3 Concentration, D=Dep	100	Color (r	moist)	% 	Type ¹	Loc ²			Remarks	8	
¹Type: C=C Hydric Soi Histor Histic Black	Concentration, D=Dep							loam				
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Rec										
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Rec		 				_				
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Rec						_				
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Red										
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Rec										
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Red		·								
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Red						_	_			
Hydric Soi Histos Histic Black	il Indicators: (Ap	oletion, RM=Red					-		<u> </u>			
Hydric Soi Histos Histic Black	il Indicators: (Ap		luced Matr	ix CS=Co	vered or (Coated San	nd Grain	s ² l ocation: Pl =	 Pore Lining M=Matri:	x		
Histos Histic Black				, 00 00				o. 200a	. 0.0 <u></u>			
Histic Black	1 (4 4)	plicable to all	LRRs, u	nless oth	herwise	noted.)		Indicators fo	or Problematic Hy	dric Soils³:		
Black	SOI (A1)			Sandy R	edox (S	5)		1 cm M	uck (A9) (LRR C)			
Black	Epipedon (A2)			Stripped	Matrix (S	S6)		2 cm M	uck (A10) (LRR B)			
	Histic (A3)					ineral (F1)	į		ed Vertic (F18)			
	ogen Sulfide (A4)			-	-	latrix (F2)			rent Material (TF2)			
	fied Layers (A5) (I	RR C)		Depleted	•	, ,			Explain in Remarks			
								Other (Lapiain in Nomalks	''		
	Muck (A9) (LRR I	•		Redox D			• \					
	eted Below Dark S	, ,				urface (F7)					
	Dark Surface (A1				Depressio			³ Inc	dicators of hydroph	ytic vegetati	on and	
	y Mucky Mineral (Vernal P	ools (F9)		V	wetland hydrology r			
Sand	y Gleyed Matrix (S	54)							unless disturbed	or problemat	ic.	
Restrictive	e Layer (if presen	t):										
Туре:												
Depth (inch	hee).						١,	Hydric Soil Prese	ant?	es es	No	X
emarks:								,		-		
DROLOG	iΥ											
Wetland H	lydrology Indicate	ors:										
Primary Inc	dicators (minimum	of one require	ed; check	all that a	pply)			Se	econdary Indicators	s (2 or more	required)	
•	ce Water (A1)	•		Salt Crus					Water Marks (E	,		
	Water Table (A2)			Biotic Cr	` ,	')			Sediment Depo	, ,	,	
	ration (A3)				•	rates (B13)	Δ.	_	Drift Deposits (
		wiscowings)								, ,	ie)	
	r Marks (B1) (Non					Odor (C1		- · · · · · · · · · · · · · · · · · · ·	Drainage Patte		20)	
	ment Deposits (B2	, ,					-	ng Roots (C3)	Dry-Season Wa		52)	
	Deposits (B3) (No					uced Iron	` '		Crayfish Burrov			
Surfa	ce Soil Cracks (B6	6)		Recent I	ron Redu	uction in T	illed Sc	oils (C6)	Saturation Visit	ole on Aerial	Imagery ((C9)
Inund	lation Visible on A	erial Imagery (B7)	Thin Mud	ck Surfac	ce (C7)			Shallow Aquita	rd (D3)		
Wate	r-Stained Leaves	(B9)		Other (E	xplain in	Remarks))		FAC-Neutral Te	est (D5)		
	ervations:											
Field Obse		Yes	No X	Depth	(inches)	:						
			No X			· :						
Surface Wa			No X		(inches):			Wetland Hvd	rology Present?	Yes	No	Χ
Surface Wa Water Tabl				_ Dobiii	(11101103).	•		Trottana riya	. Clogy i 1636iit!	103	''`_	
Surface Water Tabl Saturation	Present?							1				
Surface Water Tabl Saturation (includes c	Present? apillary fringe)		itorina we	ell. aerial	photos r	previous ir	nspection	ons), it available:				
Surface Water Tabl Saturation (includes c	Present?		nitoring we	ell, aerial	photos, p	previous ir	nspectio	ons), it available:				
Water Tabl Saturation (includes c	Present? apillary fringe)		nitoring we	ell, aerial	photos, p	previous ir	nspection	ons), it available:				
Surface Water Table Saturation (includes commercial)	Present? apillary fringe)		nitoring we	ell, aerial	photos, p	previous ir	nspection	ons), it available:				
Surface Water Table Saturation (includes commercial)	Present? apillary fringe)		nitoring we	ell, aerial	photos, p	previous ir	nspection	ons), it available:				
Surface Water Table Saturation (includes coescribe Reco	Present? apillary fringe)		nitoring we	ell, aerial	photos, _I	previous ir	nspection	ons), it available:				
Surface Water Table Saturation Cincludes conscribe Reconstruction	Present? apillary fringe)		nitoring we	ell, aerial	photos, į	previous ir	nspection	ons), it available:				

Project/Site:	Pixiey Groundwate	r Bank		City/County:	Tulare Col	unty		_ Sampling	g Date:	11/01/1
Applicant/Owner:	South Valley Wate	r Banking Authorit	ty				State: CA	Sampling	g Point:	1
nvestigator(s):	M. Hirkala			Section	n, Township	, Range:	Sction 14, Townsh	nip 23 South	, Range 25 Ea	ıst
Landform (hillslor	pe, terrace, etc.):	low terrace (fall	low field)	_ Local re	lief (concav	/e. convex. r	none):	none	Slope (%)	: <1
	: Mediterranean Cal	· · · · · · · · · · · · · · · · · · ·		_	•		Long:			n: NAD83
Soil Map Unit Na		ord sandy loam, 0			-		WI Classification:			
•	Irologic conditions or	•		•	Voc		No			2)
•	•	,,		•	-					
	, Soil						rmal Circumstand			NO
Are Vegetation	, Soil	, or Hydrology		naturally pro	biematic?	(If neede	ed, explain any ar	iswers in Re	emarks.)	
SUMMARY O	F FINDINGS – A	ttach site ma	p showinç	g sampling	point lo	cations, t	ransects, imp	ortant fea	tures, etc.	
Hydrophytic Vege	etation Present?	Yes x N	١o							
Hydric Soil Prese	ent?	Yes N	10 X		mpled Are		Yes	No	X	
Netland Hydrolog	gy Present?	Yes N	_	- within a	Wetland?					
	oint was taken withir			-	, ,					
VEGETATION	I – Use scientifi	c names of pl	ants.							
		•	Absolute	Dominant	Indicator	Dominan	ce Test workshe	ot:		
				Species?	Status		f Dominant Speci			
	(Plot size:)					DBL, FACW, or F		_	
								———	2	_ (A)
2				<u> </u>			ber of Dominant			
3						Species A	cross All Strata:		2	(B)
ł						Percent of	f Dominant Specie	es		
			0	=Total Cover	•	That Are (OBL, FACW, or F	AC:	100%	(A/B)
Sapling/Shrub	Stratum (Plot size:)				Prevalenc	ce Index Worksh	eet:		
l						Total	% Cover of:		Multiply by:	_
l						OBL spec	ies <u>0</u>	_x1 =	0	_
3						FACW spe	ecies0	x2 =	0	_
·				<u> </u>		FAC spec	ies <u>10</u>	x3 =	30	_
i						FACU spe	ecies 0	x4 =	0	_
			0	=Total Cover	•	UPL speci	ies 0	x5 =	0	_
Herb Stratum	(Plot size:4'x	4'				Column To	otals: 10	(A)	30	(B)
. Centromadia	a pungens		5	Υ	FAC	Prevale	nce Index = B/A =	: -	3.0	
. Hordeum ma	arinum		5	<u> Y</u>	FAC					_
3.				·		Hydrophy	tic Vegetation Ir	ndicators:		
·		_					Dominance Test is			
 i.				-		l	Prevalence Index			
										C
							Morphological Ada data in Remarks o			ung
										n)
J							Problematic Hydro	priyuc vege	allon (⊏xpla	11)
		_	10	=Total Cover	•	1				
-	tratum (Plot size: _						s of hydric soil and			
			-	-		be presen	t, unless disturbe	u or problem	iatic.	
2						Hydrophy	rtic .			
			0	=Total Cover	•	Vegetatio	n			
% Bare Groun	d in Herb Stratum	90	% Cover of	Biotic Crust _	0	Present?		Yes X	No	
Remarks:										

Profile Des											
Depth	Matrix				lox Feat		2	_			
inches)	Color (moist)	<u>%</u>	Color (n	noist)	%	Type ¹	Loc ²	Texture	_	Remarks	
l-15	10Y/R 4/3	100						loam	_		
									_		
								_	<u> </u>		
Type: C=C	oncentration, D=Depleti	on, RM=Red	duced Matri	x, CS=Co	vered or	Coated San	d Grains.	² Location: PL=F	Pore Lining, M=Matrix	x.	
lydric Soi	I Indicators: (Applic	cable to al	IIRRs II	nless oth	nerwise	noted)		Indicators fo	r Problematic Hy	dric Soils ³ ·	
-	sol (A1)			Sandy R					uck (A9) (LRR C)	u co	
	Epipedon (A2)			Stripped					uck (A10) (LRR B)		
	Histic (A3)					ineral (F1)			d Vertic (F18)		
				-	-				, ,		
	gen Sulfide (A4)	C)			-	fatrix (F2)			rent Material (TF2)		
	fied Layers (A5) (LRF	(0)		Depleted				Other (E	Explain in Remarks)	
	Muck (A9) (LRR D)			Redox D		` '					
	ted Below Dark Surfa	ace (A11)		•		urface (F7)				
	Dark Surface (A12)			Redox D				³ Ind	icators of hydrophy	ytic vegetation	n and
	Mucky Mineral (S1)			Vernal P	ools (F9	9)			etland hydrology r	nust be prese	nt,
Sandy	Gleyed Matrix (S4)								unless disturbed of	or problematic	-
	Layer (if present):										
Гуре:											_
Type: Depth (inch							H	ydric Soil Prese	ent? Y	/es	No _ >
Гуре: Depth (inch							н	ydric Soil Prese	ent? Y	/es	No <u>)</u>
Гуре: Depth (inch							H	ydric Soil Prese	nt? Y	/es	No <u>)</u>
Type: Depth (inch marks:	nes):						н	ydric Soil Prese	nt? Y	/es	No X
Type: Depth (inch marks:	nes):						н	ydric Soil Prese	ont? Y	/es	No X
Type:	nes): Y ydrology Indicators		and chack	all that ar	only)		н				
Type:	Y ydrology Indicators		ed; check				н		econdary Indicators	s (2 or more re	equired)
DROLOG Vetland H Primary Inc	Y ydrology Indicators dicators (minimum of the Water (A1)			Salt Crus	st (B11)		н		econdary Indicators Water Marks (E	s (2 or more re	equired)
DROLOG Vetland H Primary Inc High N	Y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2)		_	Salt Crus Biotic Cr	st (B11) ust (B12	•			econdary Indicators Water Marks (E Sediment Depo	s (2 or more re 81) (Riverine) osits (B2) (Riv	equired)
DROLOG Vetland H Surfac High V	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3)	one require	_	Salt Crus Biotic Cr Aquatic I	st (B11) ust (B12 nverteb	rates (B13)		econdary Indicators Water Marks (E Sediment Depo	s (2 or more re 31) (Riverine) osits (B2) (Riv B3) (Riverine	equired)
DROLOG Vetland H rimary Inc Surfac High V Satura Water	yydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3)	one require	_ _ _	Salt Crus Biotic Cr Aquatic I Hydroge	st (B11) ust (B12 nverteb n Sulfide	rates (B13 e Odor (C1)	<u>Se</u>	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte	s (2 or more re 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10)	equired) erine)
DROLOG Vetland H Surfac High V Satura Water Sedin	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	one require erine) Ionriverine		Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	st (B11) ust (B12 nverteb n Sulfide Rhizos	rates (B13 e Odor (C1 pheres alo))) ng Living		econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Pattel Dry-Season Wa	s (2 or more re 81) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2	equired) erine)
DROLOG Vetland H Trimary Inc Surfar High V Satura Watel Sedin Drift E	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No	one require erine) Ionriverine		Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12 nverteb n Sulfide Rhizos e of Red	rates (B13 e Odor (C1 pheres alo luced Iron)) ng Living (C4)	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa	s (2 or more re 81) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8)	equired) erine))
DROLOG Wetland H Primary Inc Surfar High V Satura Water Sedin Drift E Surfar	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6)	one require erine) lonriverine verine)	 	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12 nverteb n Sulfide Rhizos e of Red	rates (B13 e Odor (C1 pheres alo)) ng Living (C4)	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Pattel Dry-Season Wa	s (2 or more re 81) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8)	equired) erine))
DROLOG Wetland H Primary Inc Surfar High V Satura Water Sedin Drift E Surfar	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No	one require erine) lonriverine verine)	 	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12 nverteb n Sulfide Rhizos e of Red ron Red	rates (B13 e Odor (C1 pheres alo luced Iron uction in T)) ng Living (C4)	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patter Dry-Season Wa	s (2 or more re 81) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8) ole on Aerial Ir	equired) erine))
DROLOG Wetland H Surfac High V Satura Water Sedin Drift E Surfac	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6)	one require erine) lonriverine verine)	 	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II	st (B11) ust (B12 nverteb n Sulfide Rhizos e of Red ron Red ck Surfa	rates (B13 e Odor (C1 pheres alo luced Iron uction in T)) ng Living (C4) illed Soil	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visit	s (2 or more re B1) (Riverine) Disits (B2) (Riverine) Pros (B10) Later Table (C2 Later Table (C2) Later Table (C3) Later Table (C3) Later Table (C3)	equired) erine))
Depth (inch marks: DROLOG Wetland H Primary Inc Surfar High V Satura Water Sedin Drift E Surfar Inund Water	yyydrology Indicators dicators (minimum of the Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Castella (B3)	one require erine) lonriverine verine)	 	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II	st (B11) ust (B12 nverteb n Sulfide Rhizos e of Red ron Red ck Surfa	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7))) ng Living (C4) illed Soil	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visik	s (2 or more re B1) (Riverine) Disits (B2) (Riverine) Pros (B10) Later Table (C2 Later Table (C2) Later Table (C3) Later Table (C3) Later Table (C3)	equired) erine))
Depth (inch marks: DROLOG Vetland H Primary Inc Surfar High V Sedin Drift E Surfar Inund Water	yyydrology Indicators dicators (minimum of the Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Castella (B3)	one require erine) lonriverine verine) il Imagery (Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12 nverteb n Sulfide Rhizos e of Red ron Red ck Surfa	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7))) ng Living (C4) illed Soil	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visik	s (2 or more re B1) (Riverine) Disits (B2) (Riverine) Pros (B10) Later Table (C2 Later Table (C2) Later Table (C3) Later Table (C3) Later Table (C3)	equired) erine))
Depth (inch marks: DROLOG Wetland H Primary Inc Surfac High V Sedin Drift E Surfac Inund Watel Watel Field Obse	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive ment Deposits (B2) (No peposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 prvations:	one require erine) lonriverine verine) il Imagery ()	B7)	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xplain in	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7))) ng Living (C4) illed Soil	<u>Se</u> g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visik	s (2 or more re B1) (Riverine) Disits (B2) (Riverine) Pros (B10) Later Table (C2 Later Table (C2) Later Table (C3) Later Table (C3) Later Table (C3)	equired) erine))
Field Obsessurface Water Table Saturation	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye Present? Ye Present?	erine) lonriverine verine) Il Imagery () s	B7)	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xplain in	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7) i Remarks)) ng Living (C4) illed Soil	Se	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visik	s (2 or more re B1) (Riverine) Disits (B2) (Riverine) Pros (B10) Later Table (C2 Later Table (C2) Later Table (C3) Later Table (C3) Later Table (C3)	equired) erine))
Field Obsessurface Water Table Saturation includes careful control of the control	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye e Present? Ye apillary fringe)	erine) lonriverine verine) Il Imagery () ss	No X No X No X	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xxplain in (inches) (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7) n Remarks)) ng Livinq (C4) illed Soil	g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquital FAC-Neutral Te	s (2 or more re B1) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8) ole on Aerial In rd (D3) est (D5)	equired) erine)) magery (CS
Field Obsessurface Water Table Saturation includes careful control of the control	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye Present? Ye Present?	erine) lonriverine verine) Il Imagery () ss	No X No X No X	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xxplain in (inches) (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7) n Remarks)) ng Livinq (C4) illed Soil	g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquital FAC-Neutral Te	s (2 or more re B1) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8) ole on Aerial In rd (D3) est (D5)	equired) erine)) magery (CS
Field Obsessurface Water Table Saturation includes careful control of the control	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye e Present? Ye apillary fringe)	erine) lonriverine verine) Il Imagery () ss	No X No X No X	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xxplain in (inches) (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7) n Remarks)) ng Livinq (C4) illed Soil	g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquital FAC-Neutral Te	s (2 or more re B1) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8) ole on Aerial In rd (D3) est (D5)	equired) erine)) magery (CS
Field Obsessoribe Records	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye e Present? Ye apillary fringe)	erine) lonriverine verine) Il Imagery () ss	No X No X No X	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xxplain in (inches) (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7) n Remarks)) ng Livinq (C4) illed Soil	g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquital FAC-Neutral Te	s (2 or more re B1) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8) ole on Aerial In rd (D3) est (D5)	equired) erine)) magery (CS
Field Obsessoribe Records	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Nonrive ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye e Present? Ye apillary fringe)	erine) lonriverine verine) Il Imagery () ss	No X No X No X	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E Depth Depth Depth	st (B11) ust (B12) nverteb n Sulfide Rhizos e of Red ron Red ck Surfa xxplain in (inches) (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in T ce (C7) n Remarks)) ng Livinq (C4) illed Soil	g Roots (C3)	econdary Indicators Water Marks (E Sediment Depo Drift Deposits (I Drainage Patte Dry-Season Wa Crayfish Burrov Saturation Visit Shallow Aquital FAC-Neutral Te	s (2 or more re B1) (Riverine) osits (B2) (Riverine rns (B10) ater Table (C2 vs (C8) ole on Aerial In rd (D3) est (D5)	equired) erine)) magery (CS

Subregion (LRR): Mediterranean Califor Soil Map Unit Name: 124 - Hanford Are climatic / hydrologic conditions on the Are Vegetation X , Soil	low terrace (fallow rnia (LRR C) sandy loam, 0 to the site typical for the control of the contro	/ field) Lat: 2 percent nis time of	slopes f year? significantly naturally pro	yes_disturbed?	X No	ip 23 South ncave -119.23 (If no, expl	Slope (%) 566 Datum N/A lain in Remarks t? Yes X	: <1 n: NAD83 s.)
andform (hillslope, terrace, etc.): Subregion (LRR): Mediterranean Califor Soil Map Unit Name: 124 - Hanford Are climatic / hydrologic conditions on the Are Vegetation X , Soil Are Vegetation , Soil SUMMARY OF FINDINGS - Attack Bydrophytic Vegetation Present?	rnia (LRR C) sandy loam, 0 to ne site typical for th , or Hydrology , or Hydrology ach site map s	Lat: 2 percent nis time of	slopes f year? significantly naturally pro	yes_disturbed?	e, convex, none):co .929949 Long:NWI Classification: X No Are "Normal Circumstance	-119.23 (If no, expless" present	Slope (%) 566 Datum N/A lain in Remarks t? Yes X	: <1 n: NAD83 s.)
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ubregion (LRR): Mediterranean Califor bil Map Unit Name: 124 - Hanford e climatic / hydrologic conditions on the e Vegetation X, Soil e Vegetation , Soil UMMARY OF FINDINGS - Atta ydrophytic Vegetation Present?	rnia (LRR C) sandy loam, 0 to ne site typical for th , or Hydrology , or Hydrology ach site map s	Lat: 2 percent nis time of	slopes f year? significantly naturally pro	Yes_disturbed?	5.929949 Long: NWI Classification: X No Are "Normal Circumstanc	-119.23 (If no, exples" present	N/A N/A Iain in Remarks t? Yes X	n: NAD83
ill Map Unit Name: 124 - Hanford e climatic / hydrologic conditions on the e Vegetation X, Soil e Vegetation , Soil UMMARY OF FINDINGS - Attait rdrophytic Vegetation Present?	sandy loam, 0 to an esite typical for the or Hydrology, or Hydrology ach site map s	2 percent nis time of	slopes f year? significantly naturally pro	Yes _ disturbed?	NWI Classification: X No Are "Normal Circumstanc	(If no, explese" present	N/A lain in Remarks t? Yes X	s.)
e climatic / hydrologic conditions on the Vegetation X, Soil e Vegetation , Soil JMMARY OF FINDINGS – Attached drophytic Vegetation Present?	ne site typical for the control of t	nis time of	f year? significantly naturally pro	Yes _ disturbed?	X No	(If no, explese" present	lain in Remarks t? Yes <u>X</u>	
We vegetation X, Soil ,	or Hydrology, or Hydrology, or Hydrology, ach site map s		significantly naturally pro	disturbed?	Are "Normal Circumstanc	es" present	t? Yes X	
JMMARY OF FINDINGS – Attached and Attached Present? drophytic Vegetation Present?	, or Hydrology _		naturally pro					No
JMMARY OF FINDINGS – Atta drophytic Vegetation Present? dric Soil Present?	ach site map s		-	blematic?	(If needed, explain any an	swers in Re	emarks.)	
drophytic Vegetation Present? dric Soil Present?		showing	. compling					
dric Soil Present?			j samping	point loc	cations, transects, impe	ortant fea	atures, etc.	
	YesNo_	x	le the Sa	ımpled Area	a			
stland Lludralami Dragant?	YesNo_	X		Wetland?	Yes	No	X	
aliand Hydrology Present?	Yes No	X	Within	· · · · · · · · · · · · · · · · · · ·		<u></u>	·	
EGETATION - Use scientific I	<u> </u>	Absolute	Dominant	Indicator	Dominance Test workshee			
	(Species?	Status	Number of Dominant Specie			
Tree Stratum (Plot size:					That Are OBL, FACW, or FA			
					That Aic Obe, I Aow, of I A		2	(A)
					Total Number of Dominant			
					Species Across All Strata:		2	(B)
					Percent of Dominant Specie	:S		
		0	=Total Cover	r	That Are OBL, FACW, or FA		100%	(A/B)
Sapling/Shrub Stratum (Plot size:	,				Prevalence Index Worksho		Multiply by:	
							0	_
						x1 =		_
			. ——			x2 =	0	_
						x3 =	90	_
						x4 =	0	_
	_	0	=Total Cover	ſ		x5 =	0	_
Herb Stratum (Plot size: 4'x4'					Column Totals: 30	(A)	90	(B)
Polygonum aviculare		20	Y	FAC	Prevalence Index = B/A =		3.0	_
Hordeum marinum		10	Y	FAC				
					Hydrophytic Vegetation In	dicators:		
					X Dominance Test is	>50%		
					X Prevalence Index i	s ≤3.0 ¹		
					Morphological Ada	ntationd ¹ (I	Provide euppor	tina
					data in Remarks o			ung
			. ——		Problematic Hydro	-		n)
		20	T-1-1 0		1 TobleMatic Hydro	priyuc vege	station (Explai	11)
	-	30	=Total Cover		¹ Indicators of hydric soil and			
				ļ	be present, unless disturbed	or probler	natic.	
					•	or probler	natic.	
Woody Vine Stratum (Plot size:		0	=Total Cover		Hydrophytic	or probler	natic.	
			=Total Cover	0	•	Yes X		

(inches) 1-15	Matrix		Redo	x Features		_		
1-15	Color (moist)	% Color	(moist)	% Type	e ¹ Loc ²	Texture		Remarks
	10Y/R 4/3	100				loam		
							<u> </u>	
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						_	<u> </u>	
		- —— ——						
	tartian B Bankti	DM Dadasad M			010	21	Daniel Indian M. Matel	
ype: C=Co	ncentration, D=Depletion	on, RM=Reduced Ma	atrix, CS=Cove	red or Coated s	Sand Grains	sLocation: PL=	=Pore Lining, M=Matri	(.
ydric Soil	Indicators: (Applic	able to all LRRs.	unless other	rwise noted.	.)	Indicators f	for Problematic Hy	dric Soils ³ :
Histoso	ol (A1)		Sandy Re	dox (S5)		1 cm N	Muck (A9) (LRR C)	
Histic I	Epipedon (A2)		Stripped N				/luck (A10) (LRR B)	
Black I	Histic (A3)		Loamy Mu	ıcky Mineral (F	F1)	Reduc	ed Vertic (F18)	
— Hydrog	gen Sulfide (A4)		Loamy Gl	eyed Matrix (F	F2)	Red Pa	arent Material (TF2)	
	ed Layers (A5) (LRR			Matrix (F3)			(Explain in Remarks	
	fluck (A9) (LRR D)		_	rk Surface (F6	3)			
 Deplet	ed Below Dark Surfa	ice (A11)	_	Dark Surface (
Thick [Dark Surface (A12)		Redox De	pressions (F8))	310	idicators of hydroph	utic vocatation and
Sandy	Mucky Mineral (S1)		Vernal Po	ols (F9)			wetland hydrology r	
Sandy	Gleyed Matrix (S4)		_				unless disturbed	-
estrictive	Layer (if present):							
ype:								
epth (inche	es).					lydric Soil Pres	sent?	es No X
marks:						.,		
DROLOGY								
Vatiana HV	drology Indicators						N	
_	cators (minimum of							(0)
rimary Indi	e Water (A1)	one required, chec		•		<u>s</u>	•	s (2 or more required)
rimary Indi	` ,	one required, chec	_ Salt Crust	(B11)		<u>s</u>	Water Marks (E	31) (Riverine)
Primary Indi Surfac High W	Vater Table (A2)	one required, chec	Salt Crust Biotic Cru	(B11) st (B12)		<u> </u>	Water Marks (E Sediment Depo	B1) (Riverine) osits (B2) (Riverine)
rimary Indi Surfac High W	Vater Table (A2) tion (A3)		Salt Crust Biotic Cru Aquatic In	(B11) st (B12) vertebrates (B		<u>§</u> 	Water Marks (E Sediment Depo Drift Deposits (B1) (Riverine) sits (B2) (Riverine) B3) (Riverine)
Primary Indi Surface High W Satura Water	Vater Table (A2) tion (A3) Marks (B1) (Nonrive	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen	(B11) st (B12) vertebrates (B Sulfide Odor ((C1)		Water Marks (E Sediment Depo Drift Deposits (Drainage Patte	B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10)
rimary Indi Surface High W Satura Water Sedime	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres	(C1) along Livin		Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Wa	B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2)
rimary Indi Surface High W Satura Water Sedime	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In	(C1) along Livin on (C4)	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burroy	B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8)
Primary Indi Surface High W Satura Water Sedime Drift De Surface	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In on Reduction in	(C1) along Livin on (C4) n Tilled So	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit	B1) (Riverine) osits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ole on Aerial Imagery (C9
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Iron Reduction in st Surface (C7)	(C1) along Livin on (C4) n Tilled So	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water-	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In on Reduction in	(C1) along Livin on (C4) n Tilled So	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Gield Obser	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations:	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In on Reduction in a Surface (C7) blain in Remar	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Surface High W Satura Water Sedime Drift De Surface Inunda Water- ield Obser	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced International Reduction in a Surface (C7) colain in Remar	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Gurface War Vater Table	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres and reduction in Reduction in Remark surface (C7) colain in Remark nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ills (C6)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visite Season Visite Shallow Aquita FAC-Neutral Teason Season Sea	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Vater Table Saturation P	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced International Reduction in a Surface (C7) colain in Remar	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ills (C6)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Vater Table Saturation Princludes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes pillary fringe)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Vater Table Saturation Princludes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface War Nater Table Saturation P includes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes pillary fringe)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Water Table Saturation P (includes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes pillary fringe)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)

Subregion (LRR): Mediterranean Califor Soil Map Unit Name: 124 - Hanford Are climatic / hydrologic conditions on the Are Vegetation X , Soil	low terrace (fallow rnia (LRR C) sandy loam, 0 to the site typical for the control of the contro	/ field) Lat: 2 percent nis time of	slopes f year? significantly naturally pro	yes_disturbed?	X No	ip 23 South ncave -119.23 (If no, expl	Slope (%) 566 Datum N/A lain in Remarks t? Yes X	: <1 n: NAD83 s.)
andform (hillslope, terrace, etc.): Subregion (LRR): Mediterranean Califor Soil Map Unit Name: 124 - Hanford Are climatic / hydrologic conditions on the Are Vegetation X , Soil Are Vegetation , Soil SUMMARY OF FINDINGS - Attack Bydrophytic Vegetation Present?	rnia (LRR C) sandy loam, 0 to ne site typical for th , or Hydrology , or Hydrology ach site map s	Lat: 2 percent nis time of	slopes f year? significantly naturally pro	yes_disturbed?	e, convex, none):co .929949 Long:NWI Classification: X No Are "Normal Circumstance	-119.23 (If no, expless" present	Slope (%) 566 Datum N/A lain in Remarks t? Yes X	: <1 n: NAD83 s.)
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ubregion (LRR): Mediterranean Califor bil Map Unit Name: 124 - Hanford e climatic / hydrologic conditions on the e Vegetation X, Soil e Vegetation , Soil UMMARY OF FINDINGS - Atta ydrophytic Vegetation Present?	rnia (LRR C) sandy loam, 0 to ne site typical for th , or Hydrology , or Hydrology ach site map s	Lat: 2 percent nis time of	slopes f year? significantly naturally pro	Yes_disturbed?	5.929949 Long: NWI Classification: X No Are "Normal Circumstanc	-119.23 (If no, exples" present	N/A N/A Iain in Remarks t? Yes X	n: NAD83
ill Map Unit Name: 124 - Hanford e climatic / hydrologic conditions on the e Vegetation X, Soil e Vegetation , Soil UMMARY OF FINDINGS - Attait rdrophytic Vegetation Present?	sandy loam, 0 to an esite typical for the or Hydrology, or Hydrology ach site map s	2 percent nis time of	slopes f year? significantly naturally pro	Yes _ disturbed?	NWI Classification: X No Are "Normal Circumstanc	(If no, explese" present	N/A lain in Remarks t? Yes X	s.)
e climatic / hydrologic conditions on the Vegetation X, Soil e Vegetation , Soil JMMARY OF FINDINGS – Attached drophytic Vegetation Present?	ne site typical for the control of t	nis time of	f year? significantly naturally pro	Yes _ disturbed?	X No	(If no, explese" present	lain in Remarks t? Yes <u>X</u>	
We vegetation X, Soil ,	or Hydrology, or Hydrology, or Hydrology, ach site map s		significantly naturally pro	disturbed?	Are "Normal Circumstanc	es" present	t? Yes X	
JMMARY OF FINDINGS – Attached and Attached Present? drophytic Vegetation Present?	, or Hydrology _		naturally pro					No
JMMARY OF FINDINGS – Atta drophytic Vegetation Present? dric Soil Present?	ach site map s		-	blematic?	(If needed, explain any an	swers in Re	emarks.)	
drophytic Vegetation Present? dric Soil Present?		showing	. compling					
dric Soil Present?			j samping	point loc	cations, transects, impe	ortant fea	atures, etc.	
	YesNo_	x	le the Sa	ımpled Area	a			
stland Lludralami Dragant?	YesNo_	X		Wetland?	Yes	No	X	
aliand Hydrology Present?	Yes No	X	Within	· · · · · · · · · · · · · · · · · · ·		<u></u>	·	
EGETATION - Use scientific I	<u> </u>	Absolute	Dominant	Indicator	Dominance Test workshee			
	(Species?	Status	Number of Dominant Specie			
Tree Stratum (Plot size:					That Are OBL, FACW, or FA			
					That Aic Obe, I Aow, of I A		2	(A)
					Total Number of Dominant			
					Species Across All Strata:		2	(B)
					Percent of Dominant Specie	:S		
		0	=Total Cover	r	That Are OBL, FACW, or FA		100%	(A/B)
Sapling/Shrub Stratum (Plot size:	,				Prevalence Index Worksho		Multiply by:	
							0	_
						x1 =		_
			. ——			x2 =	0	_
						x3 =	90	_
						x4 =	0	_
	_	0	=Total Cover	ſ		x5 =	0	_
Herb Stratum (Plot size: 4'x4'					Column Totals: 30	(A)	90	(B)
Polygonum aviculare		20	Y	FAC	Prevalence Index = B/A =		3.0	_
Hordeum marinum		10	Y	FAC				
					Hydrophytic Vegetation In	dicators:		
					X Dominance Test is	>50%		
					X Prevalence Index i	s ≤3.0 ¹		
					Morphological Ada	ntationd ¹ (I	Provide euppor	tina
					data in Remarks o			ung
			. ——		Problematic Hydro	-		n)
		20	T-1-1 0		1 TobleMatic Hydro	priyuc vege	station (Explai	11)
	-	30	=Total Cover		¹ Indicators of hydric soil and			
				ļ	be present, unless disturbed	or probler	natic.	
					•	or probler	natic.	
Woody Vine Stratum (Plot size:		0	=Total Cover		Hydrophytic	or probler	natic.	
			=Total Cover	0	•	Yes X		

(inches) 1-15	Matrix		Redo	x Features		_		
1-15	Color (moist)	% Color	(moist)	% Type	e ¹ Loc ²	Texture		Remarks
	10Y/R 4/3	100				loam		
							<u> </u>	
							<u> </u>	
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						_	<u> </u>	
		- —— ——						
	tartian B Bankti	DM Dadasad M			010	21	Daniel Indian M. Matel	
ype: C=Co	ncentration, D=Depletion	on, RM=Reduced Ma	atrix, CS=Cove	red or Coated s	Sand Grains	sLocation: PL=	=Pore Lining, M=Matri	(.
ydric Soil	Indicators: (Applic	able to all LRRs.	unless other	rwise noted.	.)	Indicators f	for Problematic Hy	dric Soils ³ :
Histoso	ol (A1)		Sandy Re	dox (S5)		1 cm N	Muck (A9) (LRR C)	
Histic I	Epipedon (A2)		Stripped N				/luck (A10) (LRR B)	
Black I	Histic (A3)		Loamy Mu	ıcky Mineral (F	F1)	Reduc	ed Vertic (F18)	
— Hydrog	gen Sulfide (A4)		Loamy Gl	eyed Matrix (F	F2)	Red Pa	arent Material (TF2)	
	ed Layers (A5) (LRR			Matrix (F3)			(Explain in Remarks	
	fluck (A9) (LRR D)		_	rk Surface (F6	3)			
 Deplet	ed Below Dark Surfa	ice (A11)	_	Dark Surface (
Thick [Dark Surface (A12)		Redox De	pressions (F8))	310	idicators of hydroph	utic vocatation and
Sandy	Mucky Mineral (S1)		Vernal Po	ols (F9)			wetland hydrology r	
Sandy	Gleyed Matrix (S4)		_				unless disturbed	-
estrictive	Layer (if present):							
ype:								
epth (inche	es).					lydric Soil Pres	sent?	es No X
marks:						.,		
DROLOGY								
Vatiana HV	drology Indicators						N	
_	cators (minimum of							(0)
rimary Indi	e Water (A1)	one required, chec		•		<u>s</u>	•	s (2 or more required)
rimary Indi	` ,	one required, chec	_ Salt Crust	(B11)		<u>s</u>	Water Marks (E	31) (Riverine)
Primary Indi Surfac High W	Vater Table (A2)	one required, chec	Salt Crust Biotic Cru	(B11) st (B12)		<u> </u>	Water Marks (E Sediment Depo	B1) (Riverine) osits (B2) (Riverine)
rimary Indi Surface High W Satura	Vater Table (A2) tion (A3)		Salt Crust Biotic Cru Aquatic In	(B11) st (B12) vertebrates (B		<u>§</u> 	Water Marks (E Sediment Depo Drift Deposits (B1) (Riverine) sits (B2) (Riverine) B3) (Riverine)
Primary Indi Surface High W Satura Water	Vater Table (A2) tion (A3) Marks (B1) (Nonrive	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen	(B11) st (B12) vertebrates (B Sulfide Odor ((C1)		Water Marks (E Sediment Depo Drift Deposits (Drainage Patte	B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10)
rimary Indi Surface High W Satura Water Sedime	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres	(C1) along Livin		Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Wa	B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2)
rimary Indi Surface High W Satura Water Sedime	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In	(C1) along Livin on (C4)	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burroy	B1) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8)
Primary Indi Surface High W Satura Water Sedime Drift De Surface	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In on Reduction in	(C1) along Livin on (C4) n Tilled So	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit	B1) (Riverine) osits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) vs (C8) ole on Aerial Imagery (C9
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Into the Reduction into the Surface (C7)	(C1) along Livin on (C4) n Tilled So	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water-	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In on Reduction in	(C1) along Livin on (C4) n Tilled So	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Gield Obser	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations:	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced In on Reduction in a Surface (C7) blain in Remar	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Surface High W Satura Water Sedime Drift De Surface Inunda Water- ield Obser	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced International Reduction in a Surface (C7) colain in Remar	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Gurface War Vater Table	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres and reduction in Reduction in Remark surface (C7) colain in Remark nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ills (C6)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visite Season Visite Shallow Aquita FAC-Neutral Teason Season Sea	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Vater Table Saturation P	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced International Reduction in a Surface (C7) colain in Remar	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ills (C6)	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Crayfish Burrow Saturation Visit Shallow Aquita	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) rvs (C8) pole on Aerial Imagery (CS) rd (D3)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Vater Table Saturation Princludes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes pillary fringe)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Vater Table Saturation Princludes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface War Nater Table Saturation P includes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes pillary fringe)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)
Primary Indi Surface High W Satura Water Sedime Drift De Surface Inunda Water- Field Obser Surface Water Water Table Saturation P (includes ca	Vater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (N eposits (B3) (Nonriv e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) rvations: ter Present? Yes Present? Yes pillary fringe)	erine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Exp	(B11) st (B12) vertebrates (B Sulfide Odor (Rhizospheres a of Reduced Irr on Reduction in a Surface (C7) blain in Remar nches):	(C1) along Livin ron (C4) n Tilled So) rks)	g Roots (C3) ils (C6) Wetland Hyd	Water Marks (E Sediment Depo Drift Deposits (Drainage Patte Dry-Season Water Season Water Season Visiter Season Visiter Shallow Aquitater FAC-Neutral Teason Season Seaso	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10) pater Table (C2) pvs (C8) pole on Aerial Imagery (CS) rd (D3) pest (D5)

Plant List



LIST OF PLANTS OBSERVED WITHIN REVISED PIXLEY GOUNDWATER BANK STUDY AREA AND THEIR STATUS AS WETLAND INDICATOR SPECIES

Scientific Name	Common Name	Status 1&2
Amaranthus sp.	Pigweed	
Ambrosia psilostachya	Western Ragweed	FACU
Artemisia douglasiana	Mugwort	FAC
Avena fatua	Wild Oats	UPL
Atriplex sp.	Saltbush	
Baccharis salicifolia	Mule's Fat	FAC
Baccharis pilularis	Coyote Brush	UPL
Bromus diandrus	Rip-gut Brome	UPL
Brassica nigra	Black Mustard	UPL
Bromus hordeaceus	Soft Chess	FACU
Bromus madritensis	Red Brome	UPL
Centaurea solstitialis	Yellow Starthistle	UPL
Centromadia pungens	Pungent False Tarplant	FAC
Conium maculatum	Poison Hemlock	FACW
Cynodon dactylon	Bermuda Grass	FACU
Cyperus eragrostis	Umbrella Sedge	FACW
Digitaria sanguinalis	Hairy Crab Grass	FACU
Diplachne fusca	Bearded Sprangletop	FACW
Distichlis spicata	Coastal Salt Grass	FAC
Echinochloa crus-galli	Barnyard Grass	FACW
Eucalyptus globulus	Blue Gum Eucalyptus	UPL
Epilobium brachycarpum	Willow Herb	UPL
Erigeron canadensis	Canada Horseweed	FACU
Erodium botrys	Long-Beak Stork's-Bill	FACU
Erodium cicutarium	Redstem Filaree	UPL
Helianthus annuus	Common Sunflower	FACU
Helminthotheca echioides	Akan Asante	FAC
Hordeum marinum	Seaside Barley	FAC
Hordeum murinum	Wall Barley	FACU
Juncus effusus	Lamp Rush	FACW
Lactuca serriola	Prickly Lettuce	FACU
Lepidium latifolium	Perennial Pepperweed	FAC
Lolium perenne	Perennial Ryegrass	FAC
Lythrum hyssopifolia	Hyssop loosestrife	OBL

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¹ Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2016. The National Wetland Plant List: 2016 Update of Wetland Ratings. Phytoneuron 2014-41: 1-42.

² OBL = obligate; FACW = facultative wetland; FAC = facultative; FACU = facultative upland; UPL = upland

Scientific Name	Common Name	Status ¹ & ²		
Malva sp.	Mallow			
Marsilea vestita	Hairy Water-Clover	OBL		
Medicago polymorpha	Toothed Medick	FACU		
Opuntia sp.	Beavertail Cactus	UPL		
Paspalum dilatatum	Golden Crown Grass	FAC		
Persicaria maculosa	Lady's Thumb	OBL		
Pistacia vera	Pistachio	UPL		
Platanus sp.	Sycamore			
Poa annua	Annual Bluegrass	FACU		
Polypogon monspeliensis	Rabbit's-foot Grass	FACW		
Polygonum aviculare	Prostrate Knotweed	FACW		
Populus deltoides	Eastern Cottonwood	FAC		
Portulaca oleracea	Common Purslane	FAC		
Rumex crispus	Curly Dock	FAC		
Prunus dulcis	Almond	UPL		
Raphanus sativa	Wild Radish	UPL		
Rubus armeniacus	Himalayan blackberry	FACU		
Rumex crispus	Curly Dock	FAC		
Rumex pulcher	Fiddle Dock	FAC		
Salix exigua	Narrow-leaf Willow	FACW		
Salix laevigata	Polished Willow	FACW		
Salsola tragus	Russian Thistle	FACU		
Senecio vulgaris	Old-Man-in-the-Spring	FACU		
Silybum marianum	Milk Thistle	UPL		
Sisymbrium altissimum	Tumbling Mustard	FACU		
Sonchus asper	Spiny-Leaf Sow Thistle	FACU		
Sonchus oleraceus	Common Sow Thistle	UPL		
Sorghum bicolor	Cultivated Sorghum	FACU		
Sorghum halepense	Johnson Grass	FACU		
Spergularia rubra	Ruby Sandspurry	FAC		
Trbulus terrestris	Puncture Vine	UPL		
Trifolium sp.	Clover			
Typha angustifolia	Narrow-leaf Cat-tail	OBL		
Urtica dioica	Stinging Nettle	FAC		
Xanthium strumarium	Rough Cockleburr	FAC		

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¹ Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2016. The National Wetland Plant List: 2014 Update of Wetland Ratings. Phytoneuron 2014-41: 1-42.

² OBL = obligate; FACW = facultative wetland; FAC = facultative; FACU = facultative upland; UPL = upland

Aquatic Resources Excel Spreadsheet

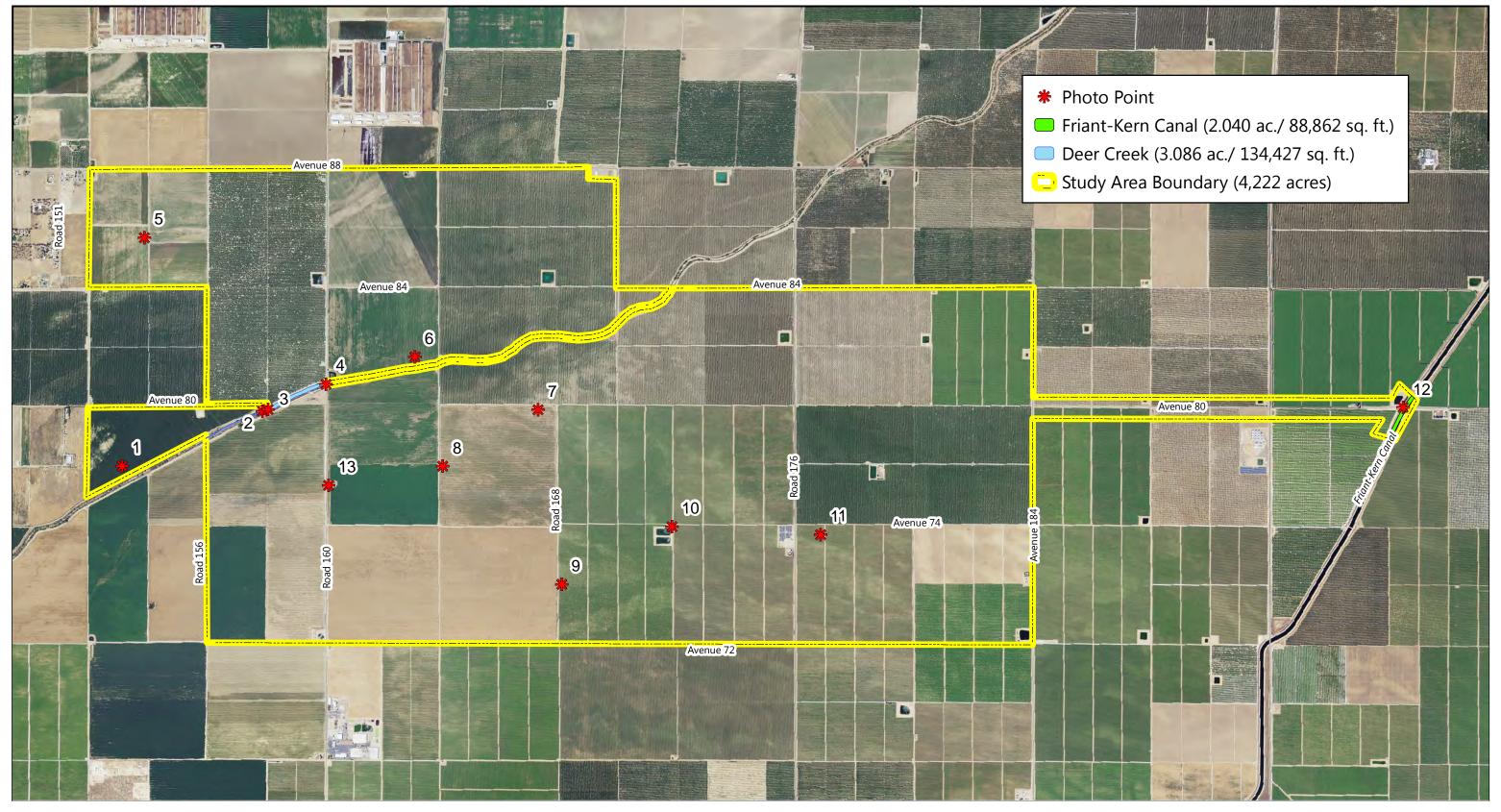


Attachment F: Aquatic Resources Excel Spreadsheet

Waters Name	<u>State</u>	Cowardin Code	HGM Code	Measurement Type	<u>Amount</u>	<u>Units</u>	Waters Type	<u>Latitude</u>	<u>Longitude</u>	Local Waterway
Deer Creek	CALIFORNIA	R4	RIVERINE	Area	12.082	ACRE	ISOLATE	35.93725194090	-119.20854997800	Deer Creek
Friant-Kern Canal	CALIFORNIA	R4	RIVERINE	Area	2.040	ACRE	RPW	35.93477640450	-119.13403417300	Kern River
ID1 (Harris Ditch)	CALIFORNIA	R4	RIVERINE	Area	0.847	ACRE	ISOLATE	35.93710033300	-119.23050610000	Deer Creek
ID2 (Harris Ditch)	CALIFORNIA	R4	RIVERINE	Area	0.269	ACRE	ISOLATE	35.93536547150	-119.22217489900	Deer Creek
TP1	CALIFORNIA	PAB	LACUSTRINF	Area	1.122	ACRE	ISOLATE	35.93016714440	-119.21453689200	Deer Creek
IP1	CALIFORNIA	PAB	LACUSTRINF	Area	1.367	ACRE	ISOLATE	35.94313365230	-119.21550203800	Deer Creek
IP2	CALIFORNIA	PAB	LACUSTRINF	Area	1.417	ACRE	ISOLATE	35.94326317420	-119.19819129200	Deer Creek
IP3	CALIFORNIA	PAB	LACUSTRINF	Area	0.723	ACRE	ISOLATE	35.94145037610	-119.19258563000	Deer Creek
IP4	CALIFORNIA	PAB	LACUSTRINF	Area	0.083	ACRE	ISOLATE	35.93960379410	-119.19328455400	Deer Creek
IP5	CALIFORNIA	PAB	LACUSTRINF	Area	0.843	ACRE	ISOLATE	35.92774424580	-119.18944417300	Deer Creek
IP6	CALIFORNIA	PAB	LACUSTRINF	Area	0.805	ACRE	ISOLATE	35.92721950460	-119.18943799100	Deer Creek
IP7	CALIFORNIA	PAB	LACUSTRINF	Area	1.100	ACRE	ISOLATE	35.92144559790	-119.16226741400	Deer Creek
IP8	CALIFORNIA	PAB	LACUSTRINF	Area	0.951	ACRE	ISOLATE	35.93137773930	-119.17366041300	Deer Creek
IP9	CALIFORNIA	PAB	LACUSTRINF	Area	0.354	ACRE	ISOLATE	35.93951486310	-119.16973203300	Deer Creek
IP10	CALIFORNIA	PAB	LACUSTRINF	Area	0.138	ACRE	ISOLATE	35.94250124010	-119.16910622100	Deer Creek
IP11	CALIFORNIA	PAB	LACUSTRINF	Area	0.511	ACRE	ISOLATE	35.93857670070	-119.16213586600	Deer Creek
IP12	CALIFORNIA	PAB	LACUSTRINF	Area	0.753	ACRE	ISOLATE	35.93139594000	-119.17312696700	Deer Creek
IP13	CALIFORNIA	PAB	LACUSTRINF	Area	0.188	ACRE	ISOLATE	35.93579544790	-119.15324636700	Deer Creek
IP14	CALIFORNIA	PAB	LACUSTRINF	Area	0.333	ACRE	ISOLATE	35.93579587720	-119.14453837600	Deer Creek
IP15	CALIFORNIA	R4	RIVERINE	Area	0.153	ACRE	ISOLATE	35.93558396290	-119.23259810100	Deer Creek

Photos





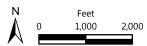


Photo Points - Original Study Area

Draft Aquatic Resources Delineation

Revised Pixley Groundwater Bank Tulare County, California



Photo Point 1 – Data Point 1 Facing North



Photo Point 2 – Facing Up (Northeast) Deer Creek



Photo Point 2 – Facing Down (Southwest) Deer Creek



Photo Point 3 – Facing Up (Northeast) Deer Creek



Photo Point 3 – Facing Down (Southwest) Deer Creek



Photo Point 4 – Facing Down (Southwest) Deer Creek



Photo Point 5 – Data Point 2 Facing North



Photo Point 6 – Data Point 3 Facing North



Photo Point 7 – Data Point 4 Facing North



Photo Point 8 – Data Point 5 Facing North



Photo Point 9 – Data Point 6 Facing East



Photo Point 10 – Irrigation Holding Pond Facing East



Photo Point 10 – Irrigation Holding Pond Facing South



Photo Point 11 – Data Point 7 Facing East



Photo Point 12 – Friant-Kern Canal Facing Upstream



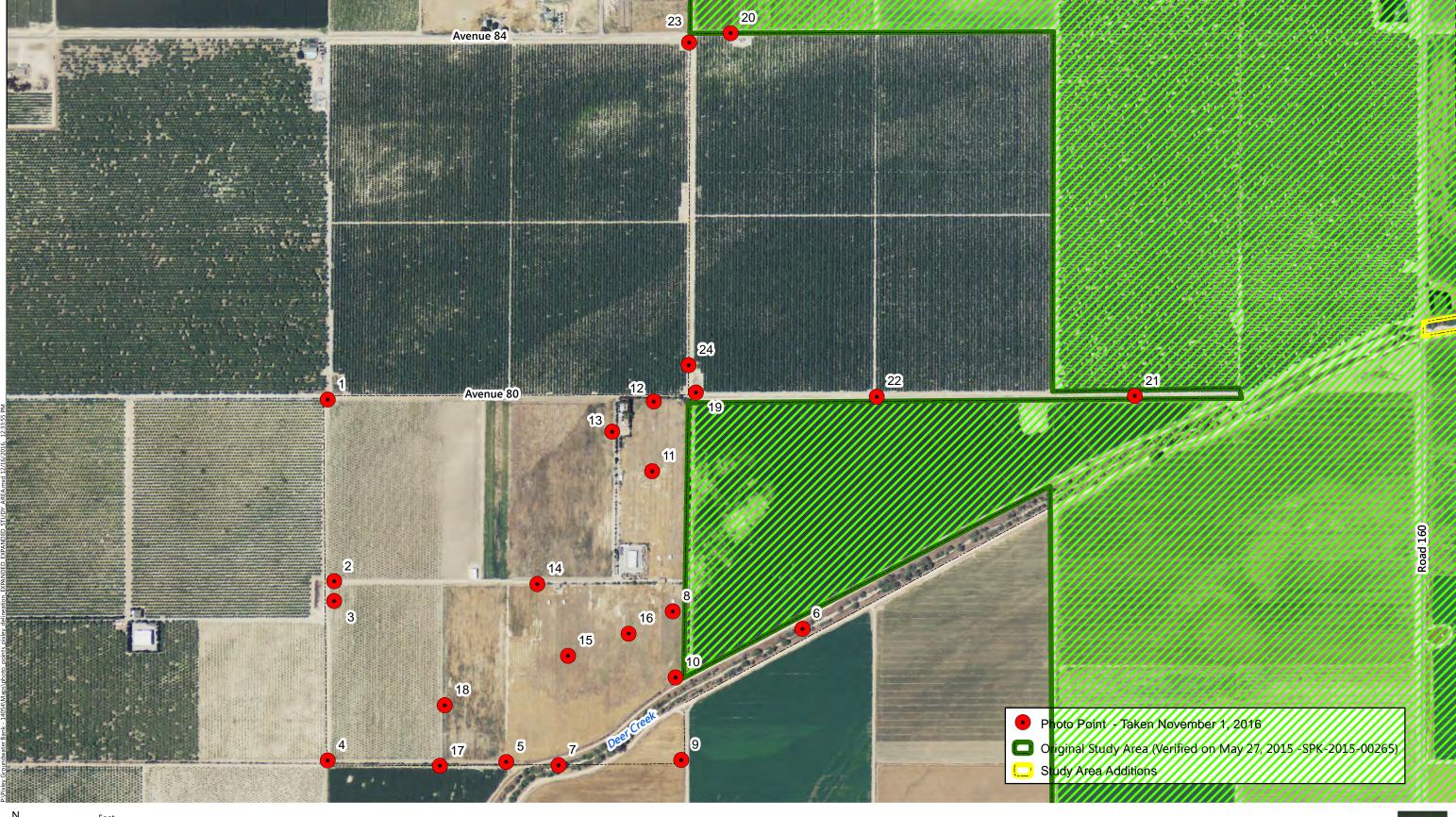
Photo Point 12 – Friant-Kern Canal Facing North



Photo Point 13 – Tailwater Return Ditch Facing South



Photo Point 13 – Tailwater Return Pond Facing Northeast



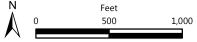


Photo Points - Study Area Additions

Draft Aquatic Resources Delineation

Revised Pixley Groundwater Bank Tulare County, California



Photo Point 1: Facing to the south.



Photo Point 1: Facing to the east.

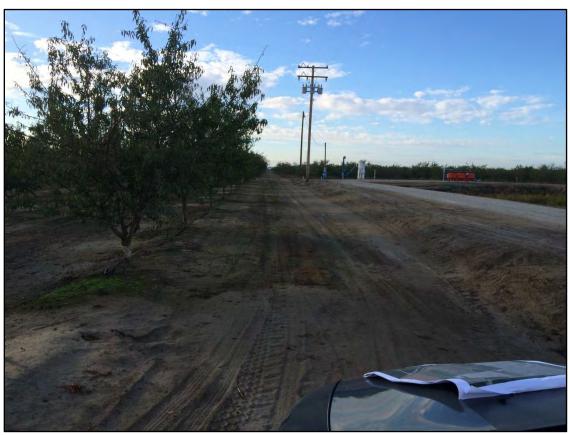


Photo Point 2: Facing to the south.



Photo Point 2: Facing to the north.