

Aquatic Resources Delineation Report

West Davis Active Adult

Davis, Yolo County, California September 2019

Prepared for:

Bretton Woods, LLC. 260 Russell Boulevard, Suite C Davis, California 95616

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1.0 INTRODUCTION

This report presents the results of a delineation of aquatic resources within the West Davis Active Adult Project Area (Study Areas 1 and 2; total acreage approximately 148 acres) conducted by Madrone Ecological Consulting, LLC (Madrone). The approximately 21-acre Study Area 1 and 127-acre Study Area 2 are generally located west of State Route 113 (SR 113), in northwestern Davis, Yolo County, California. The Study Areas are within portions of Sections 5 and 8, Township 8 North, Range 2 East (MDB&M) of the "Merritt, California" 7.5-Minute Series USGS Topographic Quadrangle (USGS 2015) (**Figure 1**).

1.1 Contact Information

Property Owner	Agent
David Taormino	Ben Watson
Bretton Woods, LLC.	Madrone Ecological Consulting, LLC
260 Russell Boulevard, Suite C	8421 Auburn Blvd., Suite #248
Davis, CA 95616	Citrus Heights, CA 95610

2.0 METHODOLOGY

Madrone biologist Matt Shaffer conducted a delineation of aquatic resources within the Study Areas on the 16, 17, and 21 of August 2018, and 19 August 2019. Water features and data points were mapped in the field with a GPS unit capable of sub-meter accuracy (Arrow 100). Three-parameter data (vegetation, soils, and hydrology) were collected at each data point, documenting wetland/waters or upland status, as appropriate. The delineation map was prepared in accordance with the *Updated Map and Drawing Standards for the South Pacific Division Regulatory Program* (USACE 2016a). The GPS data was overlaid on an ortho-rectified aerial photograph (YCO 2018).

The delineation was performed in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE 2008a), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b), and the Sacramento District's *Minimum Standards for Acceptance of Preliminary Wetlands Delineations* (USACE 2016b). U.S. Army Corps of Engineers (USACE) regulations (33 CFR 328) were used to determine the presence of Waters of the United States other than wetlands. The most recent *National Wetland Plant List* (Lichvar et al. 2016) was used to determine the wetland indicator status of plants observed in the Study Areas. The *Jepson eFlora* (Jepson Flora Project 2019) was used for plant nomenclature, except where it conflicted with the nomenclature in the *National Wetland Plant List*, which was given priority on the data sheets.

The West Davis Active Adult Project Area has been divided into two Study Areas. We are requesting a Preliminary Jurisdictional Determination for Study Area 1 which consists of the southern portion of the Project Area and contains Covell Drainage Channel, a jurisdictional Aquatic Resource. We are requesting

an Approved Jurisdictional Determination for Study Area 2 which consists of the rest of the Project Area and contains several non-jurisdictional ditches and a portion of a non-jurisdictional detention basin.

3.0 EXISTING CONDITIONS

The Study Areas are located west of SR 113; the site is bounded to the south by residential housing and West Covell Boulevard. The eastern portion of the site is bounded by Sutter Davis Hospital, along with agricultural fields, Sutter Detention Basin, and portions of John Jones Road. The abutting parcels to the north and west consist of agricultural fields and associated infrastructure. The Study Areas are accessible in the southeast corner from Risling Court. The Study Areas are flat with elevations ranging from approximately 45 to 55 feet above mean sea level.

The site primarily consists of agricultural fields. The fields were fallow at the time of the survey, and had been graded and disked. They are mostly unvegetated, with occasional patches of scattered alkali mallow (*Malvella leprosa*), field bindweed (*Convolvulus arvensis*), and alkali weed (*Cressa truxillensis*). Vegetation along the perimeter of the fields predominantly consists of non-native ruderal species such as wild oat (*Avena fatua*), ripgut brome (*Bromus diandrus*), prickly lettuce (*Lactuca serriola*), and perennial ryegrass (*Festuca perennis*). Additional vegetation within these areas includes perennial pepperweed (*Lepidium latifolium*), common spikeweed (*Centromadia pungens*), and turkey mullein (*Croton setiger*). A walking trail travels along the eastern side of Study Area 2, then turns east and ends at John Jones Road. The path features planted valley oak (*Quercus lobata*), interior live oak (*Quercus wislizeni*), and an ornamental pine (*Pinus sp.*). Vegetation in this area consists of non-native annual grassland, with common plant species including wild oat, ripgut brome, perennial ryegrass, prickly lettuce, yellow star thistle (*Centaurea solstitialis*), perennial pepperweed, soft chess (*Bromus hordeaceus*), and wall barley (*Hordeum murinum*).

A small basin is located in the northern portion of Study Area 2. The basin appears to have been constructed within existing agricultural fields and may have been used to retain irrigation water; it consists of a partial berm less than five feet high on all sides, except for the south side. San Joaquin spearscale (*Extriplex joaquinana*), a CRPR List 1B.2 plant, is growing along the slopes of the berms on the north, west, and east margins of the basin. Other plant species growing along the berms include perennial ryegrass, wild oat, soft chess, saltgrass (*Distichlis spicata*) common spikeweed, and Mojave silverscale (*Atriplex argentea var. expansa*). The base of the basin is dominated by ruderal species including wild oat, yellow star thistle, and some perennial pepperweed.

Study Area 1 at the southern portion of the site consists of West Covell Boulevard, landscaping associated with the residential development to the south and the hospital to the east, and Covell Drainage Channel. At the northwest corner of the intersection of Risling Court and West Covell Boulevard, the site consists of a disturbed area that was historically a farmstead, and was previously used as a soil spoil area and overflow parking for the nearby hospital. This area has recently been cleared of vehicles, soil spoils, and vegetation, and now consists of sparsely vegetated gravelly and mowed ruderal areas.

3.1 Hydrology

Surface water within the Study Areas is driven by rainfall and irrigation runoff and flows through an existing storm drain system to Covell Drainage Channel or the Sutter Detention Basin. Covell Drainage Channel is an intermittent tributary to Willow Slough Bypass, which flows into the Yolo Bypass, and ultimately the Sacramento River. The Study Areas are located in the *Lower Sacramento River Watershed* (HUC 18020163) (USGS 1978).

3.2 Soils

According to the Natural Resources Conservation Service (NRCS) Soil Survey Database (NRCS 2019), seven soil mapping units occur within the Study Areas (**Figure 2**). Two of these soil units, Willows clay (Wb) and Willows clay, sodic (Wc) consist of hydric components. Five units, Capay silty clay (Ca), Marvin silty clay loam (Mf), Pescadero silty clay (Pb), Willows clay, and Willows clay, sodic contain hydric inclusions (NRCS 2019). The soils within the Study Areas fall within the hydrological soil groups C and D, which generally have a slow infiltration rate when thoroughly wet, a slow to very slow rate of water transmission, and typically a higher runoff potential. Soils found within the Study Areas are summarized in **Table 1**.

Soil Unit Name	Map Unit Symbol	Hydric Rating
Brentwood silty clay loam, 0 to 2 percent slopes	BrA	No
Capy silty clay, 0 percent slopes, MLRA 17	Са	No
Marvin silty clay loam	Mf	No
Pescadero silty clay, saline-alkali	Pb	No
Rincon silty clay loam	Rg	No
Willows clay, 0 percent slopes, MLRA 17	Wb	Yes
Willows clay, 0 percent slopes, sodic, MLRA 17	Wc	Yes

Table 1. Hydric Rating of Soils within the Study Areas

3.3 Driving Directions

The Study Areas are located off of Risling Court, Davis, California, 95616. To access the Study Areas from Sacramento, drive west on I-80 towards Davis. Take exit 70 from I-80 west onto SR 113. Follow SR 113 until exit 29, then turn left onto West Covell Boulevard. Continue past John Jones Road and turn right onto Risling Court, which is the main entrance for the Sutter Davis Hospital. The Study Areas are predominantly located to the left and ahead.

4.0 RESULTS

A total of approximately 1.000 acre of aquatic resources were delineated within the Study Areas, including 0.572 acre of jurisdictional waters in Study Area 1 and 0.428 acre of non-jurisdictional waters in Study Area 2. Two segments of Covell Drainage Channel were delineated within Study Area 1. Two irrigation ditch segments, two roadside ditches, a drainage ditch in two segments, and a portion of the Sutter Detention

Basin were delineated within Study Area 2. No wetlands were delineated within either Study Area. A summary of the aquatic resources found within the Study Areas and their acreages is shown in **Table 2**.

Resource Type	Acreage
Study Area 1	
Other Waters	
Covell Drainage Channel	0.572
Study Area 2	
Non-Jurisdictional Waters	
Detention Basin	0.034
Drainage Ditch	0.063
Irrigation Ditch	0.295
Roadside Ditch	0.036
Total	1.000

Table 2. Aquatic Resources Delineated within the Study Areas

Data sheets are included in Attachment A. Maps of the aquatic resources within the Study Areas are included as Figure 3 and Attachment B, and a list of the plant species observed in the Study Areas with their wetland indicator status is included in Attachment C. Representative site photographs are included in Attachment D. GIS Shapefiles and the *Aquatic Resources Excel Spreadsheets* for the aquatic resources shown on Figure 3 and Attachment B are included on a CD in Attachment E. Each of the feature types is described below.

4.1 Perennial Drainage (Covell Drainage Channel)

Covell Drainage Channel (CDC-1, CDC-2) flows from west to east through Study Area 1. Flows within the channel are perennial in nature, with slow-flowing water observed during the site visits. The channel runs along the southern portion of the site in two segments (0.572 acre), paralleling West Covell Boulevard. It passes beneath Risling Court and John Jones Road via a double culvert and underpass, respectively. The channel is a manmade trapezoidal ditch approximately 10-feet in depth. Vegetation within the channel is dominated by broad-leaved cattail (Typha latifolia) and tall flatsedge (Cyperus eragrostis). Other species growing within the feature include western yellowcress (Rorippa curvisiliqua), watergrass (Echinochloa crusgalli), curly dock (Rumex crispus), rabbitsfoot grass (Polypogon monspeliensis), common knotweed (Persicaria lapathifolia), tall wheat grass (Elymus ponticus), and johnsongrass (Sorghum halepense). The slopes of the channel are covered in upland vegetation including wild oat, ripgut brome, and pricky lettuce. Scattered native trees such as Fremont cottonwood (Populus fremontii), western sycamore (Platanus racemosa), and Goodding's black willow (Salix gooddingii) occur along the channel, as well as some nonnative ornamental trees associated with the surrounding development. The channel is an indirectly connected tributary to the navigable Sacramento River, as previously described, and is therefore likely to be a jurisdictional water of the U.S. The channel was mapped at the Ordinary High Water Mark (OHWM), which was identified based on sediment deposits, water marks, vegetation, and topographic breaks.

4.2 Detention Basin

A portion of the Sutter Detention Basin (NJB-1) totaling 0.034 acre is located at the eastern end of Study Area 2. Most vegetation within the basin occurs along the margins of the feature, and includes broad-leaved cattail, tall flatsedge, and sandbar willow (*Salix exigua*). The basin receives stormwater runoff from nearby development and agricultural farmland, and was dry during the site visits. Detention basins and other storm water facilities that are not impoundments of jurisdictional waterways, and were constructed in uplands to convey, treat, or store stormwater are generally considered Excluded Waters under CWR Section 328.3(b)(6); as such, we believe that this feature is not jurisdictional. The feature was mapped at the OHWM based on water marks, vegetation, and topographic breaks.

4.3 Drainage Ditch

A drainage ditch (NJDD-1, NJDD-2) flows in the eastern portion of Study Area 2, with two segments falling within the site. Approximately 0.063 acre of the ditch are within the site. Vegetation within the ditch is fairly abundant, and is dominated by ruderal species, such as perennial pepperweed, perennial ryegrass, ripgut brome, and soft chess. Hydrology within the ditch is driven by irrigation runoff from an agricultural field to the east. In addition, the ditch receives storm water runoff from a paralleling walking trail. The ditch flows first north, then east, and eventually enters a culvert which drains into the Sutter Detention Basin, located just to the north. As previously described, the Sutter Detention Basin is likely an Excluded Water; thus, we believe that this feature is also non-jurisdictional. Furthermore, the drainage ditch is an ephemeral feature that is not a relocated tributary; therefore, we believe that the ditch would be considered an Excluded Water under both CWR Section 328.3(b)(3)(i) and Section 328.3(b)(3)(iii). The ditch was mapped at the OHWM, which was identified based on topographic breaks.

4.4 Irrigation Ditch

Two segemnts of an irrigation ditch (ID-01, ID-02), totaling approximately 0.295 acre, are located within Study Area 2 along the northern portion of the site. The ditch is steeply inclined and somewhat devoid of vegetation at the base. Plant species within the feature includes wild oat, ripgut brome, prickly lettuce, milk thistle, yellow star thistle, perennial pepperweed, rabbitsfoot grass, and Mojave silverscale. The ditch serves to convey irrigation water to and from the adjacent agricultural fields. The irrigation ditch is an intermittent feature that was created in uplands and is not a relocated tributary; therefore, we believe that the ditch would be an Excluded Water under CWR Section 328.3(b)(3)(ii). The OHWM was mapped based on topographic breaks.

4.5 Roadside Ditch

Two roadside drainage ditches (0.068 acre) are located within Study Area 2. One (NJRD-1) is located along Risling Court and another (NJRD-2) parallels John Jones Road. The roadside ditch along Risling Court is dominated by mowed wild oat, while the ditch along John Jones Road is gravelly and sparsely vegetated with ruderal plants including perennial pepperweed, yellow-star thistle, milk thistle, johnsongrass,

watergrass, and rabbitsfoot grass. The roadside ditches were created in uplands to drain upland runoff, receive ephemeral flows, and are not relocated tributaries; as such, we believe that these features would be considered Excluded Waters under CWR Section 328.3(b)(3)(i). In addition, NJRD-1 drains into the non-jurisdictional Sutter Detention Basin, and thus is also an Excluded Water under CWR Section 328.3(b)(3)(iii). The ditches were mapped at the OHWM based on water marks and topographic breaks.

5.0 CONCLUSION

The applicant is requesting a Preliminary Jurisdictional Determination for the Aquatic Resources Delineation Map for Study Area 1, which we believe fall under jurisdiction of the USACE and an Approved Jurisdictional Determination for the Aquatic Resources Delineation Map for Study Area 2, which we believe are excluded from USACE jurisdiction (**Attachment B**). A letter providing USACE staff accompanied access to the Study Area is included as **Attachment F**.

6.0 **REFERENCES**

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- U.S. Department of the Interior, Geological Survey (USGS). 2015. *Merritt, California* 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

Figures

Figure 1. Vicinity Map

- Figure 2. Natural Resources Conservation Service Soils
- Figure 3. Aquatic Resources



Source: United States Geologic Survey, 2015. "Merritt, California" 7.5-Minute Topographic Quadrangle Sections 5 and 8, Township 8 North, Range 2 East, MDB&M Longitude -121.775217, Latitude 38.566444

West Davis Active Adult, City of Davis, Yolo County, California



Soil Survey Source: USDA, Soil Conservation Service.

Figure 2 Natural Resources Conservation Service Soils



Soil Survey Source: USDA, Soil Conservation Service. Soil Survey Geographic (SSURGO) database for Yolo County, California Aerial Source: Yolo County Orthophotos, 13 April 2018.





* Rounding may result in small summation errors. Aerial Source: *Yolo County Orthophotos*, 13 April 2018.

600

Feet

300

Attachments

- Attachment A. Arid West Wetland Determination Data Forms
- Attachment B. Aquatic Resources Delination Map
- Attachment C. Plant Species Observed within the Study Areas
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Arid West Wetland Determination Data Forms

Project/Site:	West Davis Activ	e Adult		City/County: Davis, Yolo	County		Sampling Da	ite:	08/16/18
Applicant/Owner:	David Taormino (Taormino & Associate	es)			State: CA	Sampling Po	int: DP 01	
Investigator(s):	Matt Shaffer			Section, Township, I	Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		Local relief (concave,	, convex	k, none): <u>Concave</u>		Slope (%):	4
Subregion (LRR):	Mediterranean Ca	alifornia (LRR C)	Lat:	-121.77	768581	Long:	38.56139595	Datum:	NAD 83
Soil Map Unit Nan	ne: Brentwoo	d silty clay loam				NWI Classification:	None		
Are climatic / hydr	ologic conditions of	on the site typical for t	his time of	year? Yes_		No <u>X*</u>	(If no, explain in	n Remarks.)	1
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "I	Normal Circumstanc	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If nee	eded, explain any an	swers in Remar	ks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	X	No No No	X X	Is the Sampled Area within a Wetland?	Yes	No	<u>x</u>	
Remarks: Heavily vegetated ditch ald conditions abnormal, rainfall totals w	ong agric ell-above	ultural avera	field. A ge for	Appers to r the 2018-2	ot have been in use for some 2019 winter, and rain events o	e time. Constructed ccured late in sea	d in uplands to son.	drain/irrigate field. *	Climactic

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				1 (A)
2				Total Number of Dominant
3		·		(B)
4				Percent of Dominant Species
				$\frac{100\%}{(A/B)}$
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x1 =0
3				FACW species x2 =0
4				FAC species <u>100</u> x3 = <u>300</u>
5				FACU species <u>0</u> x4 = <u>0</u>
	0	=Total Cover		UPL species x5 =0
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals: <u>100</u> (A) <u>300</u> (B)
1. Festuca perennis	100	<u> </u>	FAC	Prevalence Index = B/A = 3.0
2. <u>Malvella leprosa</u>	T		FACU	
3. Asclepias fascicularis	T		FAC	Hydrophytic Vegetation Indicators:
4				X Dominance Test is >50%
5				X Prevalence Index is $\leq 3.0^1$
6				Morphological Adaptationd ¹ (Provide supporting
7				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
	100	=Total Cover		
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum 0	% Cover of	Biotic Crust	0	Present? Yes X No
Remarks: Segments of ditch dominated by Lactuca ser	riola (FACU)			

SOIL	
------	--

Depth	Matrix	$\frac{x}{1} = \frac{1}{2} \frac{1}{1} $								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
0-8	2.5Y 3/2	100					sandy loam r	ocky		
Type: C=C	Concentration, D=Depletion	n, RM=Red	duced Matrix, CS=0	Covered or	Coated Sar	d Grains.	² Location: PL=Pore Lir	ning, M=Matrix.		
lydric So	il Indicators: (Applica	blo to all		thorwise	noted)		Indicators for Prob	lematic Hydric Soils	s ³ :	
	m multicators. (Applica	inie io all	LIVIV3, 0111633 0	1101 1130 1						
Histo	osol (A1)		Sandy	Redox (S5	5)		1 cm Muck (A9) (LRR C)		
Histo Histic	osol (A1) c Epipedon (A2)		Sandy Strippe	Redox (S5 d Matrix (S	5) 56)		1 cm Muck (A9 2 cm Muck (A1	0) (LRR C) 0) (LRR B)		
Histo Histic Black	osol (A1) c Epipedon (A2) < Histic (A3)		Sandy Strippe Loamy	Redox (St d Matrix (S Mucky Mi	5) 56) neral (F1)		1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic	0) (LRR C) 0) (LRR B) c (F18)		
Histo Histic Black	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4)		Sandy Strippe Loamy Loamy	Redox (St d Matrix (S Mucky Mi Gleyed M	5) S6) neral (F1) atrix (F2)		1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma	0) (LRR C) 0) (LRR B) c (F18) aterial (TF2)		
Histo Histic Black Hydro Strati	osol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (C)	Sandy Strippe Loamy Loamy Deplete	Redox (S5 d Matrix (S Mucky Mi Gleyed M ed Matrix (5) S6) neral (F1) atrix (F2) F3)		1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain	0) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks)		
Histo Histic Black Hydro Strati 1 cm	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (Muck (A9) (LRR D)	C)	Sandy Strippe Loamy Loamy Deplete Redox	Redox (St d Matrix (S Mucky Mi Gleyed M ed Matrix (Dark Surfa	5) S6) neral (F1) atrix (F2) F3) ace (F6)		1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain	o) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks)		
Histo Histo Black Hydro Strati	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surfac	C) e (A11)	Sandy Strippe Loamy Deplete Redox Deplete	Redox (S5 d Matrix (\$ Mucky Mii Gleyed M ed Matrix (Dark Surfa ed Dark Su	5) S6) neral (F1) atrix (F2) F3) ace (F6) urface (F7)	1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain	9) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks)		
Histo Histic Black Hydru Strati C cm Deple	osol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surfac < Dark Surface (A12)	C) e (A11)	Sandy Strippe Loamy Deplete Redox Deplete Redox	Redox (S5 d Matrix (S Mucky Mil Gleyed M ed Matrix (Dark Surfa ed Dark Su	5) 56) neral (F1) atrix (F2) (F3) ace (F6) urface (F7) ons (F8))	1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain	9) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks)	ation and	
Histo Histic Black Hydru Strati Cm Deple Thick Sand	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1)	C) e (A11)	Sandy Strippe Loamy Deplete Redox Redox Redox Redox Vernal	Redox (S5 d Matrix (S Mucky Mii Gleyed M ed Matrix (Dark Surfa ed Dark Su Depressio Pools (F9)	5) S6) neral (F1) atrix (F2) (F3) ace (F6) urface (F7 ons (F8)))	1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ³ Indicators wetland	 a) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks) a of hydrophytic veget hydrology must be p 	ation and	
Histo Histo Histic Histic Hydro Strati Chick Sand Sand	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surface k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4)	C) e (A11)	Sandy Strippe Loamy Loamy Deplete Redox Redox Vernal	Redox (S5 d Matrix (S Mucky Mii Gleyed M ed Matrix (Dark Surfa ed Dark Su Depressio Pools (F9)	5) S6) neral (F1) atrix (F2) F3) ace (F6) urface (F7) ons (F8)))	1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ³ Indicators wetland unless	 a) (LRR C) b) (LRR B) c) (F18) aterial (TF2) in Remarks) c) of hydrophytic veget bydrology must be p c) disturbed or problem 	ation and resent, natic.	
Histo Histo Black Hydro Strati C Deplo Thick Sand Restrictiv	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR 0) Muck (A9) (LRR D) eted Below Dark Surface k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) re Layer (if present):	C) e (A11)	Sandy Strippe Loamy Deplete Redox Deplete Redox Vernal	Redox (S5 d Matrix (S Mucky Mii Gleyed M ed Matrix (Dark Surfa ed Dark Su Depressio Pools (F9)	S6) S6) atrix (F2) F3) ace (F6) urface (F7) ons (F8))	1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ³ Indicators wetland unless	 a) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks) a of hydrophytic veget bydrology must be p a disturbed or problem 	ation and resent, natic.	
Histo Histo Black Hydro Strati Deplo Thick Sand Restrictiv	osol (A1) c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR 0) Muck (A9) (LRR D) eted Below Dark Surfac k Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) Te Layer (if present): lay hardpan	C) e (A11)	Sandy Strippe Loamy Deplete Redox Redox Redox Vernal	Redox (S5 d Matrix (S Mucky Mii Gleyed M ed Matrix (Dark Surfa ed Dark Su Depressio Pools (F9)	5) S6) atrix (F2) F3) ace (F6) urface (F7 ons (F8)))	1 cm Muck (A9 2 cm Muck (A1 Reduced Vertic Red Parent Ma Other (Explain ³ Indicators wetland unless	 a) (LRR C) 0) (LRR B) c (F18) aterial (TF2) in Remarks) a of hydrophytic veget hydrology must be p a disturbed or problem 	ation and resent, natic.	

HYDROLOGY

HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir	ng 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 Sc	bils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>No X</u> Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches):	Wetland Hydrology Present? Yes <u>No X</u>
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectio	ons), if available:
Remarks: No signs of hydrology	
rteniarts. No signs of hydrology.	

Project/Site:	West Davis Active Adult	City/County: Davis, Yolo County		Sampling Date:	08/16/18
Applicant/Owner:	David Taormino (Taormino & Associates)		State: CA	Sampling Point:	DP 02
Investigator(s):	Matt Shaffer	Section, Township, Range:	S5, T8N, R2E		
Landform (hillslop	e, terrace, etc.): Valley Floor	Local relief (concave, convex	, none): <u>none</u>	Slop	e (%):
Subregion (LRR):	Mediterranean California (LRR C)	at: -121.776888	Long:	38.56139183	Datum: NAD 83
Soil Map Unit Nan	ne: Brentwood silty clay loam		NWI Classification:	None	
Are climatic / hydr	ologic conditions on the site typical for this time	of year? Yes	No <u>X*</u>	(If no, explain in Re	emarks.)
Are Vegetation	, Soil, or Hydrology	significantly disturbed? Are "I	Normal Circumstanc	es" present? Yes	No
Are Vegetation	, Soil, or Hydrology	naturally problematic? (If nee	eded, explain any an	swers in Remarks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X	No No No	X X	Is the Sampled Area within a Wetland?	Yes	No	X
Remarks: Upland point paired w/ DP late in season.	9 01. *Clir	nactic	condit	ions abnor	mal, rainfall totals well-above	average for the 20	18-2019 winter	r, and rain events occured

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Juglans x paradox	10			Inat Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata:(B)
4				Percent of Dominant Species
	10	=Total Cover		That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x1 =0
3				FACW species x2 =0
4				FAC species x3 = 270
5				FACU species5x4 =20
	0	=Total Cover		UPL species x5 = 25
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals:(A)315(B)
1. Festuca perennis	90	Y	FAC	Prevalence Index = B/A = 3.2
2. Lactuca serriola	5		FACU	
3. Avena fatua	3		UPL	Hydrophytic Vegetation Indicators:
4. Bromus diandrus	2		UPL	X Dominance Test is >50%
5.				Prevalence Index is ≤3.0 ¹
6.				Morphological Adaptationd ¹ (Provide supporting
7.				data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation ¹ (Explain)
	100	=Total Cover		
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum 0	% Cover of	Biotic Crust	0	Present? Yes X No
Remarks:				•

SUIL

Depth	Matrix		Re	dox Features							
inches)	Color (moist)	%	Color (moist)	% Ту	be ¹ Loc ²	Texture	Rema	rks			
-5	10YR 3/2	100				sandy loam					
-10	2.5Y 3/2	100				loam					
				·		·					
ype: C=	Concentration, D=Depletio	n, RM=Re	duced Matrix, CS=0	Covered or Coate	d Sand Grains.	² Location: PL=Pore Lining	g, M=Matrix.				
dric So	oil Indicators: (Applica	able to al	I LRRs, unless o	therwise note	J.)	Indicators for Proble	matic Hydric Soils	³ :			
Histe	osol (A1)		Sandy		1 cm Muck (A9) (LRR C)					
Histi	c Epipedon (A2)		Strippe	d Matrix (S6)		2 cm Muck (A10)	(LRR B)				
- Blac	k Histic (A3)		Loamy	Mucky Mineral	(F1)	Reduced Vertic (F18)					
– Hydi	rogen Sulfide (A4)		Loamy	Gleyed Matrix	(F2)	Red Parent Material (TF2) Other (Explain in Remarks)					
– Stra	tified Lavers (A5) (LRR	C)	Deplete	ed Matrix (F3)	()						
– 1 cm	n Muck (A9) (LRR D)	- /	Redox	Dark Surface (-6)						
– Dep	leted Below Dark Surfac	e (A11)	Deplete	ed Dark Surface	e (F7)						
- Thic	k Dark Surface (A12)		Redox	Depressions (F	8)						
- San	dv Mucky Mineral (S1)		Vernal	Pools (F9)	•/	Indicators of	hydrophytic veget	ation and			
- San	dy Gleved Matrix (S4)					wetland hydrology must be present,					
- estrictiv	ve Laver (if present):										
	lav hardnan										
vne C	nay naiupan		10			udria Sail Dracont?	Voc	No			
ype: <u>C</u>	ches):		10		I H\	INFIC SAIL PROSONLY	les	INC			

HYDROLOGY										
Wetland Hydrology Indica	ators:									
Primary Indicators (minimu	m of one requ	ired; che	eck all t	that apply)		Secc	ondary Indicators	(2 or more re	quired)	
Surface Water (A1)		_	Sa	alt Crust (B11)		Water Marks (B1) (Riverine)				
High Water Table (A2	<u>?</u>)	_	Bio	Biotic Crust (B12)			Sediment Deposits (B2) (Riverine)			
Saturation (A3)			Aq	Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine))		
Water Marks (B1) (No	onriverine)		Hy	Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)						
Sediment Deposits (B	Ox	kidized Rhizospheres alonç	ng 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)									;9)	
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3)										
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5)										
Field Observations:										
Surface Water Present?	Yes	No _	Х	Depth (inches):						
Water Table Present?	Yes	No	ХГ	Depth (inches):						
Saturation Present?	Yes	No	ХГ	Depth (inches):	Wetland H	Hydrol	ogy Present?	Yes	No	X
(includes capillary fringe)		·			_					
Describe Recorded Data (stre	eam gauge, m	onitoring	g well, a	aerial photos, previous insp	pections), if availab	ole:				
Romarka: No indicators of Ol	JM/M other by	drology	indicat	toro not procont						
Remarks. NO mulcators of Or	1 v v v v , ou lei h	/urology	muicat	lors not present.						

Project/Site:	West Davis Active	Adult		City/County: Davis, Yolo County			Sampling Da	ite:	08/17/18
Applicant/Owner:	David Taormino (1	aormino & Associates	6)			State: CA	Sampling Po	int: DP 03	
Investigator(s):	Matt Shaffer			Section, Township, Ra	inge:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		Local relief (concave, co	onvex	, none): <u>Convex</u>		Slope (%):	2
Subregion (LRR):	Mediterranean Ca	lifornia (LRR C)	Lat:	-121.7764	4241	Long:	38.56872981	Datum:	NAD 83
Soil Map Unit Nan	ne: Pescado si	lty clay, saline-alkali				NWI Classification:	None		
Are climatic / hydr	ologic conditions o	n the site typical for thi	s time of	year? Yes		No <u>X*</u>	(If no, explain ir	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "N	Normal Circumstanc	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic? (If nee	eded, explain any an	swers in Remarl	ks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	X	Is the Sampled Area within a Wetland?	Yes	No	X
Remarks: Raised berm of basin; pair occured late in season.	d with D	P 04. *	Climad	ctic conditio	ons abnormal, rainfall totals w	/ell-above average	for the 2018-2	019 winter, and rain events

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1				1 Inat Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata:(B)
4				Percent of Dominant Species
	0	=Total Cover		That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1				Total % Cover of: Multiply by:
2				OBL species 0 x1 = 0
3.				FACW species 0 x2 = 0
4				FAC species 75 x3 = 225
5				FACU species 10 x4 = 40
	0	=Total Cover		UPL species 5 x5 = 25
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals: 90 (A) 290 (B)
1. Avena fatua	5		UPL	Prevalence Index = B/A = 3.2
2. Lactuca serriola	Т		FACU	
3. Extriplex joaquinana	10		FACU	Hydrophytic Vegetation Indicators:
4. Festuca perennis	75	Y	FAC	X Dominance Test is >50%
5. Dittrichia graveolens	Т		UPL	Prevalence Index is ≤3.0 ¹
6.				Morphological Adaptationd ¹ (Provide supporting
7.				data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation ¹ (Explain)
	90	=Total Cover		
Woody Vine Stratum (Plot size:)		•		¹ Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum 10	% Cover of	Biotic Crust	0	Present? Yes No X
Remarks: Basin walls dominated by Festuca perennis v	with Centrom	nadia pungens	s, Distichlis	spicata, Atriplex argentea var. expansa, Extriplex joaquinana

SOIL	
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Depth	Matrix		F	Redox Featu	ures							
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks				
<u>()</u> 0-4	2.5Y 3/1	98	2.5Y 4/3	2	C	M	loam					
4-12	5Y 2.5/1	100					silt loam					
¹ Type: C=	Concentration, D=Depletio	n, RM=Re	educed Matrix, CS=	Covered or	Coated Sar	nd Grains.	² Location: PL=Pore Lining	, M=Matrix.				
Hydric So	oil Indicators: (Applica	ble to a	II LRRs, unless	otherwise	noted.)		Indicators for Problem	natic Hydric Soils ³ :				
Histo	osol (A1)		Sandy	/ Redox (St	5)		1 cm Muck (A9) (L	_RR C)				
Histi	c Epipedon (A2)	pedon (A2) Stripped Matrix (S6)					2 cm Muck (A10) ((LRR B)				
Blac	k Histic (A3)		Loam	y Mucky Mi	neral (F1)		Reduced Vertic (F	luced Vertic (F18)				
Hydi	rogen Sulfide (A4)		Loam	y Gleyed M	atrix (F2)		Red Parent Material (TF2)					
Stra	tified Layers (A5) (LRR	C)	Deple	ted Matrix (F3)		Other (Explain in Remarks)					
 1 cm	n Muck (A9) (LRR D)		X Redo:	x Dark Surfa	ace (F6)							
	leted Below Dark Surfac	e (A11)	 Deple	ted Dark Si	urface (F7)						
Dep	k Dark Surface (A12)	()	Redo:	k Depressio	ons (F8)	,	3					
Depl Thic	I nick Dark Surface (A12)			Redox Depressions (Fo)			³ Indicators of hydrophytic vegetation and					
Depl Thic Sand	dv Mucky Mineral (S1)		Verna	Pools (F9))		ببيط امحرم الجميين					
Depl Thic Sand Sand	dy Mucky Mineral (S1) dy Gleved Matrix (S4)		Verna	I Pools (F9)		wetland hyd unless dis	drology must be present,				
Depl Thic Sand Sand Restrictiv	dy Mucky Mineral (S1) dy Gleyed Matrix (S4) /e Layer (if present):		Verna	I Pools (F9)		wetland hyd unless dis	drology must be present, sturbed or problematic.				
Depl Thic Sand Sand Restrictiv	dy Mucky Mineral (S1) dy Gleyed Matrix (S4) re Layer (if present): lay bardpan		Verna	I Pools (F9)		wetland hyo unless dis	drology must be present, sturbed or problematic.				
Depl Thic Sand Sand Restrictiv Type: <u>C</u> Depth (inc	dy Mucky Mineral (S1) dy Gleyed Matrix (S4) /e Layer (if present): lay hardpan		Verna	I Pools (F9)	н	wetland hyo unless dis	drology must be present, sturbed or problematic.				

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

Project/Site:	West Davis Active	Adult		ity/County: Davis, Yolo County			_ Sampling Date	e:(08/17/18
Applicant/Owner:	David Taormino (T	aormino & Associate	s)			State: CA	_ Sampling Poin	t: DP 04	
Investigator(s):	Matt Shaffer			Section, Townsh	ip, Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		Local relief (conca	ave, conve	x, none): <u>Concave</u>	SI	ope (%): <u><2</u>	
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:	-12 ⁻	1.7764639	Long:	38.56868755	Datum: N/	AD 83
Soil Map Unit Nan	ne: Prescado si	lty clay, saline-alkali				NWI Classification:	None		
Are climatic / hydr	ologic conditions on	the site typical for th	is time of	year? Yes	s	No <u>X*</u>	(If no, explain in I	Remarks.)	
Are Vegetation	, Soil	_, or Hydrology _		significantly disturbed	? Are "l	Normal Circumstanc	es" present? Ye	es <u>X</u> No	»
Are Vegetation	, Soil	_, or Hydrology		naturally problematic?	? (If nee	eded, explain any an	swers in Remarks	.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X	No No No	x x	Is the Sampled Area within a Wetland?	Yes	No	<u>x</u>
Remarks: Floor of basin, paired with occured late in season.	DP 03. *	Climac	ctic con	iditions ab	normal, rainfall totals well-abo	ove average for the	2018-2019 wi	inter, and rain events

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC
1 2 3				Total Number of Dominant 0 (A) Species Across All Strata: 2 (B)
4	0	=Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:) 1				Prevalence Index Worksheet: Total % Cover of: Multiply by:
2		·		OBL species 0 x1 = 0 EACIM species 0 x2 = 0
4		·		FACtive species $0 \times 2 = 0$ FAC species $0 \times 3 = 0$
5	0	 =Total Cover		FACU species 0 x4 = 0 UPL species 100 x5 = 500
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals: 100 (A) 500 (B)
A A A A A A A A A A A A A A A A A A A	05			
1. Avena fatua 2. Centaurea solstitialis	65 35	Y Y	UPL UPL	Prevalence Index = B/A =5.0
Avena fatua Centaurea solstitialis <u>Lactuca serriola</u>	65 35 T	Y Y	UPL UPL FACU	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50%
1. Avena fatua 2. Centaurea solstitialis 3. Lactuca serriola 4. 5. 6. 7. •	<u>65</u> 35 T	Y Y	UPL UPL FACU	Prevalence Index = B/A =
1. Avena fatua 2. Centaurea solstitialis 3. Lactuca serriola 4. 5. 6. 7. 8. Woody Vine Stratum (Plot size:) 1	65 35 T 	Y Y ==Total Cover	UPL FACU	Prevalence Index = B/A =
1. Avena fatua 2. Centaurea solstitialis 3. Lactuca serriola 4. 5. 6. 7. 8. Woody Vine Stratum (Plot size:) 1. 2. % Bare Ground in Herb Stratum0	65 35 T 100 % Cover of	Y Y Y	UPL UPL FACU	Prevalence Index = B/A =

SUIL

Profile De	scription: (Describe t	o the de	epth needed	to document t	he indicat	or or co	onfirm the absence	of indicators.)			
Depth	Matrix			Redox Featu	ures		_				
(inches)	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Texture		Remarks	;	
0-5	2.5Y 3/1	99	2.5Y 4/3	1	С	М	loam	rocky			
5-12	2.5Y 2.5/1	75	2.5Y 3/3	25	С	М	loam				
							. <u></u>				
¹ Type: C=C	Concentration, D=Depletion	n, RM=R	educed Matrix,	CS=Covered or	Coated San	d Grains.	. ² Location: PL=Pore	e Lining, M=Matrix.			
Hydric So	il Indicators: (Applica	ble to a	ll LRRs. unle	ess otherwise	noted.)		Indicators for Pr	oblematic Hydr	c Soils ³ :		
Histo	sol (A1)		Sa	andv Redox (S5	5)		1 cm Muck	(A9) (LRR C)			
Histic	Epipedon (A2)		St	tripped Matrix (S	56)		2 cm Muck	(A10) (LRR B)			
Black	(Histic (A3)		Lo	pamv Muckv Mi	neral (F1)		Reduced Ve	ertic (F18)			
	ogen Sulfide (A4)		Lo	pamy Gleved M	atrix (F2)		Red Parent	Material (TF2)			
Strati	ified Lavers (A5) (LRR (C)	 De	epleted Matrix ((F3)		Other (Expl	ain in Remarks)			
1 cm	Muck (A9) (LRR D)	,	XR	edox Dark Surfa	ace (F6)		、	,			
Deple	eted Below Dark Surfac	e (A11)	De	epleted Dark Su	urface (F7)						
Thick	Dark Surface (A12)	. ,		edox Depressio	ons (F8)		31				
Sand	y Mucky Mineral (S1)		Ve	ernal Pools (F9))		indicat	ors of nyaropnyti	st he nres	on and ent	
Sand	y Gleyed Matrix (S4)						unl	ess disturbed or	problemati	с. С.	
Restrictiv	e Layer (if present):										
Type: Cl	ay hardpan										
Depth (inc	hes):		12			Ну	ydric Soil Present?	Yes	; <u>X</u>	No	
Remarks:											

HYDROLOGY

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

Project/Site:	West Davis Active	Adult		City/County: Davis, Yol	o County		_ Sampling Da	ate:	08/17/18
Applicant/Owner:	David Taormino (T	aormino & Associate	es)			State: CA	Sampling Po	oint: DP 05	
Investigator(s):	Matt Shaffer			Section, Township	o, Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		_ Local relief (concav	/e, conve>	, none): <u>Concave</u>		Slope (%):	20
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:	-121.	7762617	Long:	38.56827012	Datum:	NAD 83
Soil Map Unit Nan	ne: Pescado sil	ty clay, saline-alkali				NWI Classification:	None		
Are climatic / hydr	ologic conditions or	n the site typical for t	his time of	year? Yes		No <u>X*</u>	(If no, explain i	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "I	Normal Circumstanc	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If nee	eded, explain any an	swers in Remar	ˈks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X	No No No	X X	Is the Sampled Area within a Wetland?	Yes	No	X
Remarks: Point in irrigation ditch. *C season.	Climactic o	conditio	ons abi	normal, rai	nfall totals well-above averag	e for the 2018-201	9 winter, and r	ain events occured late in

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:) 1.)				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species
	0	=Total Cover		That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x1 =0
3				FACW species <u>10</u> x2 = <u>20</u>
4				FAC species <u>3</u> x3 = <u>9</u>
5				FACU species <u>4</u> x4 = <u>16</u>
	0	=Total Cover		UPL species x5 =
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals: <u>60</u> (A) <u>260</u> (B)
1. Polypogon monspeliensis	10		FACW	Prevalence Index = B/A =
2. <u>Centaurea solstitialis</u>	2		UPL	
3. Lepidium latifolium	3		FAC	Hydrophytic Vegetation Indicators:
4. <u>Avena fatua</u>	20	<u>Y</u>	UPL	Dominance Test is >50%
5. <i>Bromus diandrus</i>	20	<u>Y</u>	UPL	Prevalence Index is ≤3.0 ¹
6. Silybum marianum	1		UPL	Morphological Adaptationd ¹ (Provide supporting
7. <u>Lactuca serriola</u>	4		FACU	data in Remarks or on a separate sheet)
8. Hordeum murinum	T		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
	60	=Total Cover		
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover	. —	Vegetation
% Bare Ground in Herb Stratum 40	% Cover of	Biotic Crust	0	Present? Yes No X
Remarks:				

SOIL	
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	Matrix		Re	dox Features				
nches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remar	rks
4	2.5Y 3/2	100				loam		
		. <u> </u>						
	_							
						<u> </u>		
pe: C=C	Concentration, D=Depletic	on, RM=Re	duced Matrix, CS=C	Covered or Coated Sa	nd Grains.	² Location: PL=Pore Lining	, M=Matrix.	
dric So	il Indicators: (Applica	able to al	I LRRs, unless of	therwise noted.)		Indicators for Problem	atic Hydric Soils	³ :
Histo	osol (A1)		, Sandv I	, Redox (S5)		1 cm Muck (A9) (I	BR C)	
1 11010	stic Enjadon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B)							
- Histic	c Epipedon (A2)		Strippe	d Matrix (S6)		2 cm Muck (A10) (LRR B)	
- Histic - Histic Black	c Epipedon (A2) < Histic (A3)		Strippe Loamy	d Matrix (S6) Mucky Mineral (F1)		2 cm Muck (A10) (Reduced Vertic (F	LRR B) 18)	
Histic Histic Black	c Epipedon (A2) < Histic (A3) ogen Sulfide (A4)		Strippe Loamy Loamy	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2)		2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi	LRR B) 18) al (TF2)	
Histic Histic Black Hydr Strat	c Epipedon (A2) (Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR	C)	Strippe Loamy Loamy Deplete	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3)		2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	LRR B) 18) al (TF2) Remarks)	
Histic Histic Black Hydr Strat 1 cm	c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D)	C)	Strippe Loamy Loamy Deplete Redox	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6)		2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	LRR B) 18) al (TF2) Remarks)	
Histio Black Hydro Strat Deplo	c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac	C) ce (A11)	Strippe Loamy Loamy Deplete Redox Deplete	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7)	2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	LRR B) 18) al (TF2) Remarks)	
 Histic Histic Black Hydro Strat 1 cm Deplo Thick 	c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface < Dark Surface (A12)	C) ce (A11)	Strippe Loamy Loamy Deplete Redox Deplete	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) d Matrix (F3) Dark Surface (F6) d Dark Surface (F7) Depressions (F8))	2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	LRR B) 18) al (TF2) Remarks)	ation and
 Histic Histic Black Hydri Strat 1 cm Deple Thick Sand 	c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface < Dark Surface (A12) by Mucky Mineral (S1)	C) ce (A11)	Strippe Loamy Loamy Deplete Redox Redox Redox	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) Pools (F9))	2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pr	ation and esent.
 Histic Histic Black Hydri Strat 1 cm 1 cm Deple Thick Sand Sand 	c Epipedon (A2) k Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface k Dark Surface (A12) by Mucky Mineral (S1) by Gleyed Matrix (S4)	C) ce (A11)	Strippe Loamy Deplete Redox Deplete Redox	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) Pools (F9))	2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F ³ Indicators of wetland hyd unless dis	LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pr sturbed or problem	ation and esent, atic.
Histic Histic Hydr Strat Trick Sanc Sanc	c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface < Dark Surface (A12) by Mucky Mineral (S1) by Gleyed Matrix (S4) e Layer (if present):	C) ce (A11)	Strippe Loamy Loamy Deplete Redox Redox Redox Vernal	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) d Matrix (F3) Dark Surface (F6) d Dark Surface (F7) Depressions (F8) Pools (F9))	2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F ³ Indicators of wetland hyd unless dis	LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pr sturbed or problem	ation and esent, atic.
Histic Histic Hydr Strat Depl Thick Sanc Sanc satrictiv	c Epipedon (A2) (Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12) Hy Mucky Mineral (S1) Hy Gleyed Matrix (S4) e Layer (if present): ay hardpan	C) ce (A11)	Strippe Loamy Loamy Deplete Redox Deplete Redox	d Matrix (S6) Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) Pools (F9))	2 cm Muck (A10) (2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F ³ Indicators of wetland hyd unless dis	LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pr sturbed or problem	ation and esent, atic.

HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; check	ck all that apply)	Secondary Indicators (2 or more required)		
Surface Water (A1)	_ Salt Crust (B11)	Water Marks (B1) (Riverine)		
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)		
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2)		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
X 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)		
Field Observations:				
Surface Water Present? Yes No	X Depth (inches):			
Water Table Present? Yes No	X Depth (inches):			
Saturation Present? Yes No	X Depth (inches): Wetland H	Wetland Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if availabl	e:		
Remarks:				
rionano.				

Project/Site:	West Davis Active	Adult		City/County: Davis, Yolo County			_ Sampling Da	ate:	08/17/18
Applicant/Owner:	David Taormino (1	aormino & Associa	tes)			State: CA	Sampling Po	oint: DP 06	
Investigator(s):	Matt Shaffer			Section, Township	, Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		Local relief (concave	e, convex	k, none): <u>Concave</u>		Slope (%):	4
Subregion (LRR):	Mediterranean Ca	ifornia (LRR C)	Lat:	-121	.772668	Long:	38.56270636	Datum:	NAD 83
Soil Map Unit Nan	ne: Brentwood	silty clay loam				NWI Classification:	None		
Are climatic / hydr	ologic conditions or	n the site typical for	this time of	year? Yes_		No <u>X*</u>	(If no, explain i	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "I	Normal Circumstand	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If nee	eded, explain any an	swers in Remar	ˈks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X	No No	X X	Is the Sampled Area within a Wetland?	Yes	No	X
Remarks: Roadside ditch for stormv 2019 winter, and rain events occure	vater dra d late in :	inage. seasoi	Large s n.	stones with	in ditch. *Climactic conditions	s abnormal, rainfall	totals well-abo	ove average for the 2018-

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1)		·		That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata:(B)
4				Percent of Dominant Species
	0	=Total Cover		That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x1 =0
3				FACW species x2 =0
4				FAC species x3 = 0
5				FACU species <u>5</u> x4 = <u>20</u>
	0	=Total Cover		UPL species x5 =
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals: 90 (A) 445 (B)
1. Avena fatua	85	<u> </u>	UPL	Prevalence Index = B/A =
2. <u>Lactuca serriola</u>	4		FACU	
3. Malvella leprosa	1		FACU	Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				Prevalence Index is ≤3.0 ¹
6				Morphological Adaptationd ¹ (Provide supporting
//				data lh Remarks or on a separate sneet
8				Problematic Hydrophytic Vegetation (Explain)
	90	=Total Cover		
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum 10	% Cover of	Biotic Crust	0	Present? Yes No X
Remarks: Vegetation mowed.				·

SOIL	
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Depin	Matrix			Red	dox Feat	ures					
(inches)	Color (moist)	%	Color /	(moist)	%	Type ¹	Loc ²	- Texture	Rema	rks	
0-3	5Y 2.5/2	100		<u> </u>				silt loam			
3-10	2.5Y 3/2	80	2.5Y 2.5	5/1	19	С	М	loam			
			7.5YR 4	l/6	1	С	М				
4											
Type: C=C	Concentration, D=Depletio	n, RM=R	educed Ma	atrix, CS=Co	overed or	Coated Sa	nd Grains.	. ² Location: PL=Pore Lining	, M=Matrix.		
Hydric So	il Indicators: (Applica	able to a	III LRRs, I	unless ot	herwise	noted.)		Indicators for Problem	natic Hydric Soils	³ :	
Histo	osol (A1)		-,-	Sandy F	Redox (S	5)		1 cm Muck (A9) (L	.RR C)		
— Histio	c Epipedon (A2)			Stripped	l Matrix (S6)		2 cm Muck (A10) (LRR B)		
Black	(Histic (A3)			Loamy N	Mucky M	ineral (F1)		Reduced Vertic (F	18)		
 Hydr	ogen Sulfide (A4)			- Loamy (Gleyed N	latrix (F2)		Red Parent Materi	al (TF2)		
Strat	ified Layers (A5) (LRR (C)		Deplete	d Matrix	(F3)		Other (Explain in F	Remarks)		
1 cm	Muck (A9) (LRR D)			Redox D	Dark Surf	ace (F6)					
Depl	eted Below Dark Surfac	e (A11)		Deplete	d Dark S	urface (F7	.)				
Thick	(Dark Surface (A12)		X	Redox D	Depressio	ons (F8)		³ Indicators of	hydrophytic yogot	ation and	
Sand	ly Mucky Mineral (S1)			Vernal F	Pools (F9)		wetland hvo	drology must be pr	resent.	
Sand	ly Gleyed Matrix (S4)							unless dis	sturbed or problem	natic.	
	e Layer (if present):										
Restrictiv											
Restrictiv Type: Cl	ay hardpan										

HYDROLOGY

HYDROLOGY									
Wetland Hydrology Indic	ators:								
Primary Indicators (minimu	m of one requ	ired; che	ck all that apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)		_	Salt Crust (B11)		Water Marks (B1) (Riverine)				
High Water Table (A2	2)	_	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)				
Saturation (A3)			Aquatic Invertebra	tes (B13)	Drift Deposits (B3) (Riverine)				
Water Marks (B1) (N	onriverine)		Hydrogen Sulfide	Odor (C1)	Drainage Patterns (B10)				
Sediment Deposits (E	32) (Nonriveri i	ne) 📃	eres along Living Roots (C	C3) Dry-Season Water Table (C2)					
Drift Deposits (B3) (N	onriverine)	_	Presence of Redu	ced Iron (C4)	Crayfish Burrows (C8)				
Surface Soil Cracks (B6)		Recent Iron Reduc	tion 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 Leave	s (B9)	>	C Other (Explain in F	(emarks)	FAC-Neutral Test (D5)				
Field Observations:									
Surface Water Present?	Yes	No	X Depth (inches):						
Water Table Present?	Yes	No _	X Depth (inches):						
Saturation Present?	Yes	No _	X Depth (inches):	Wetlan	d Hydrology Present? Yes X No				
(includes capillary fringe)									
Describe Recorded Data (str	eam gauge, m	onitoring	well, aerial photos, pr	evious inspections), if avail	lable:				
Domorkov Storm drain inlat v	ithin ditaby con		and storm water run						
Remarks. Storm drain met w	ithin ditch, con	veys sea	asonal storm water run	JII.					

Project/Site:	West Davis Activ	e Adult		City/County: Davis, Yolo County			Sampling Dat	:e:	08/17/18
Applicant/Owner:	David Taormino (Taormino & Associate	es)			State: CA	Sampling Poi	nt: DP 07	
Investigator(s):	Matt Shaffer			Section, Township, F	Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		Local relief (concave,	convex	, none): <u>Concave</u>	s	Slope (%):	2
Subregion (LRR):	Mediterranean Ca	alifornia (LRR C)	Lat:	-121.77	50992	Long:	38.5611048	Datum:	NAD 83
Soil Map Unit Nan	ne: Brentwood	d silty clay loam				NWI Classification:	None		
Are climatic / hydr	ologic conditions o	on the site typical for t	his time of	year? Yes		No <u>X*</u>	(If no, explain in	Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "N	Normal Circumstanc	es" present? Y	′es <u>X</u>	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If nee	eded, explain any an	swers in Remark	s.)	

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

Hydrophytic Vegetation Present?	Yes	X	No	Is the Sampled Area Yes X No Within a Wetland?
Hydric Soil Present?	Yes	X	No	
Wetland Hydrology Present?	Yes	X	No	
Remarks: DP within perennial draina and rain events occured late in sease	ge (Cove on.	ell Drai	nage Char	nel). *Climactic conditions abnormal, rainfall totals well-above average for the 2018-2019 winter,

	% (Cover	Spacias2	Statue	
Tree Stratum (Plot size:)				Number of Dominant Species
1				2 (A)
2				Total Number of Dominant
3				$\frac{2}{(B)}$
4				Percent of Dominant Species
	0	=Total Cover		That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1.				Total % Cover of: Multiply by:
2.				OBL species 30 x1 = 30
3.				FACW species 35 x2 = 70
4.				FAC species 5 x3 = 15
5				FACU species 0 x4 = 0
	0	=Total Cover		UPL species x5 =0
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals:(A)(B)
1. Typha sp.	25	<u> </u>	OBL	Prevalence Index = B/A = 1.6
2. Cyperus eragrostis	30	<u> </u>	FACW	
3. <i>Rumex crispus</i>	5		FAC	Hydrophytic Vegetation Indicators:
4. Polypogon monspeliensis	T		FACW	X Dominance Test is >50%
5. Sorghum halepense	T		FACU	X Prevalence Index is ≤3.0 ¹
6. <i>Rorippa curvisiliqua</i>	5		OBL	Morphological Adaptationd ¹ (Provide supporting
7. Echinochloa crus-galli	5		FACW	data in Remarks or on a separate sheet)
8. Persicaria lapathifolia	T		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	70	=Total Cover		
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydronhytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum	% Cover of	Biotic Crust	0	Present? Yes X No

SOIL

oth	Matrix		Re	edox Features					
ches)	Color (moist)	%	Color (moist)	<u>%</u> Type ¹	Loc ²	Texture	Remarks		
pe: C=C	ncentration, D=Depletio	on, RM=Re	duced Matrix, CS=C	Covered or Coated S	and Grains.	² Location: PL=Pore Lining	g, M=Matrix.		
-l									
aric Soli	Indicators: (Applica	able to al	I LRRs, unless of		Indicators for Problei	matic Hydric Soils":			
Histos	Indicators: (Applica ol (A1)	able to al	I LRRs, unless of Sandy	therwise noted.) Redox (S5)		1 cm Muck (A9) ((LRR C)		
Histos Histic	Indicators: (Applica ol (A1) Epipedon (A2)	able to al	I LRRs, unless of Sandy Strippe	therwise noted.) Redox (S5) d Matrix (S6)		Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10)	matic Hydric Soils": [LRR C) (LRR B)		
Histos Histic Black	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3)	able to al	I LRRs, unless of Sandy Strippe Loamy	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F [.]	1)	1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I	matic Hydric Soils": [LRR C) (LRR B) F18)		
dric Soli _ Histos _ Histic⊺ _ Black⊺ _ Hydrog	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4)	able to al	I LRRs, unless of Sandy Strippe Loamy Loamy	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F2	1) 2)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate	matic Hydric Soils': (LRR C) (LRR B) F18) rial (TF2)		
Histos Histos Histic Black Hydrog Stratifi	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR	able to al C)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F2 ed Matrix (F3)	1) 2)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in	matic Hydric Soils*: (LRR C) (LRR B) F18) rial (TF2) Remarks)		
Histos Histic Black Hydrog Stratifi 1 cm N	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR /uck (A9) (LRR D)	able to al C)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete Redox	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) d Matrix (F3) Dark Surface (F6)	1) 2)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in	matic Hydric Soils*: (LRR C) (LRR B) F18) rial (TF2) Remarks)		
Histos Histic Black Hydrog Stratifi 1 cm N Deplet	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR Juck (A9) (LRR D) red Below Dark Surfac	able to al C) ce (A11)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete Redox Deplete	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) d Matrix (F3) Dark Surface (F6) ed Dark Surface (F	1) 2) 7)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in	matic Hydric Solls*: (LRR C) (LRR B) F18) rial (TF2) Remarks)		
Histos Histic Black Hydrog Stratifi 1 cm N Deplet	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR Muck (A9) (LRR D) ed Below Dark Surfac Dark Surface (A12)	c) c)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete Redox Redox Redox	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) d Matrix (F3) Dark Surface (F6) d Dark Surface (F8)	1) 2) 77)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in	matic Hydric Soils": (LRR C) (LRR B) F18) rial (TF2) Remarks)		
Histos Histic Black Hydrog Stratifi 1 cm M Deplet Thick Sandy	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR Muck (A9) (LRR D) red Below Dark Surfac Dark Surface (A12) Mucky Mineral (S1)	c) c)	I LRRs, unless of Sandy Strippe Loamy Loamy Beplete Redox Redox Vernal	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) d Matrix (F3) Dark Surface (F6) ed Dark Surface (F6) Depressions (F8) Pools (F9)	1) 2) 7)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in ³ Indicators of wetland by	matic Hydric Soils*: (LRR C) (LRR B) F18) rial (TF2) Remarks) f hydrophytic vegetation and vdrology must be present		
Histos Histic Black Hydrog Stratifi Deplet Deplet Sandy Sandy	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR Auck (A9) (LRR D) ed Below Dark Surfac Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	C) c)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete Redox Redox Vernal	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) Dark Surface (F6) ed Dark Surface (F6) Depressions (F8) Pools (F9)	1) 2) 77)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in ³ Indicators of wetland hy unless d	matic Hydric Soils*: (LRR C) (LRR B) F18) rial (TF2) Remarks) f hydrophytic vegetation and ydrology must be present, isturbed or problematic.		
Histos Histic Black Hydrog Stratifi Deplet Thick Sandy Sandy	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR Muck (A9) (LRR D) ed Below Dark Surfac Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):	c) c)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete Redox Redox Vernal	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) Dark Surface (F6) ed Dark Surface (F6) Depressions (F8) Pools (F9)	1) 2) 7)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in ³ Indicators of wetland hy unless d	matic Hydric Soils*: (LRR C) (LRR B) F18) rial (TF2) Remarks) f hydrophytic vegetation and ydrology must be present, isturbed or problematic.		
Histos Histic Black Hydrog Stratifi Deplet Deplet Sandy Sandy Batrictive	Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR Muck (A9) (LRR D) ted Below Dark Surfac Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Layer (if present):	C) c)	I LRRs, unless of Sandy Strippe Loamy Loamy Deplete Redox Redox Vernal	therwise noted.) Redox (S5) d Matrix (S6) Mucky Mineral (F Gleyed Matrix (F3) Dark Surface (F6) ed Dark Surface (F Depressions (F8) Pools (F9)	1) 2) 7)	Indicators for Problem 1 cm Muck (A9) (2 cm Muck (A10) Reduced Vertic (I Red Parent Mate Other (Explain in ³ Indicators of wetland hy unless d	matic Hydric Soils*: (LRR C) (LRR B) F18) rial (TF2) Remarks) f hydrophytic vegetation and ydrology must be present, isturbed or problematic.		

HYDROLOGY									
Wetland Hydrology Indica	ators:								
Primary Indicators (minimu	m of one	e requi	red; che	eck all that apply)		Secondary Indicators (2 or more required)			
X Surface Water (A1)			_	Salt Crust (B11)		Water Marks (B1) (Riverine)			
X High Water Table (A2	.)		_	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)			
X Saturation (A3) Aquatic Invertebrates (B13)						Drift Deposits (B3) (Riverine)			
X Water Marks (B1) (No	X Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)					Drainage Patterns (B10)			
X Sediment Deposits (E	2) (Non	riverir	1e) _	Oxidized Rhizospher	res along Living	g Roots (C3) Dry-Season Water Table (C2)			
X Drift Deposits (B3) (N	onriveri	ne)	_	Presence of Reduce	d Iron (C4)	Crayfish Burrows (C8)			
Surface Soil Cracks (36)			Recent Iron Reduction	on in Tilled Soils	ls (C6) Saturation Visible on Aerial Imagery (C9)			
X Inundation Visible on	Aerial In	nagery	(B7)	X Thin Muck Surface (C7)	Shallow Aquitard (D3)			
X Water-Stained Leave	s (B9)		_	Other (Explain in Rei	marks)	FAC-Neutral Test (D5)			
Field Observations:									
Surface Water Present?	Yes	Х	No _	Depth (inches):	3				
Water Table Present?	Yes	Х	No _	Depth (inches):	0				
Saturation Present?	Yes	Х	No _	Depth (inches):	0	Wetland Hydrology Present? Yes X No			
(includes capillary fringe)									
Describe Recorded Data (stre	eam gau	ige, mo	onitoring	y well, aerial photos, prev	ious inspection	ns), if available:			
	iol duoin								
Remarks: DP is within perent	liai drain	lage, ir	nundale	d with water.					

Project/Site:	West Davis Active	Adult		City/County: Davis, Yolo County			_ Sampling Da	te:	08/21/18
Applicant/Owner:	David Taormino (T	aormino & Associa	tes)			State: CA	Sampling Po	int: DP 08	
Investigator(s):	Matt Shaffer			Section, Townsh	ip, Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		Local relief (conca	ave, conve	x, none): <u>Concave</u>		Slope (%):	4
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:	-12	1.7707213	Long:	38.56699549	Datum:	NAD 83
Soil Map Unit Nan	ne: <u>Marvin silty</u>	clay loam				NWI Classification:	None		
Are climatic / hydr	ologic conditions or	the site typical for	this time of	year? Yes	3	No <u>X*</u>	_(If no, explain ir	n Remarks.))
Are Vegetation	, Soil	_, or Hydrology		significantly disturbed	? Are "	Normal Circumstand	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	? (If nee	eded, explain any an	swers in Remark	ks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	X	Is the Sampled Area within a Wetland?	Yes	No	X
Remarks: DP within drainage ditch. * season.	*Climactio	c cond	itions a	abnormal, i	rainfall totals well-above avera	age for the 2018-20	019 winter, and	d rain events occured late in

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1)				That Are OBL, FACW, or FAC:(A)
2		·		Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Deminant Creation
	0	=Total Cover	 r	That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x1 =0
3				FACW species x2 =0
4				FAC species x3 =150
5				FACU species x4 =0
	0	=Total Cover	ſ	UPL species x5 =100
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals:(A)(B)
1. Lepidium latifolium	20	<u> </u>	FAC	Prevalence Index = B/A = 3.6
2. <u>Festuca perennis</u>	30	<u> </u>	FAC	
3. <u>Bromus diandrus</u>	10		UPL	Hydrophytic Vegetation Indicators:
4. <u>Bromus hordeacous</u>	10		UPL	X Dominance Test is >50%
5				Prevalence Index is ≤3.0 ¹
6				Morphological Adaptationd ¹ (Provide supporting
/		·		data in Remarks or on a separate sneet)
8				
		=Total Cover	ſ	
Woody Vine Stratum (Plot size:) 1				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum 30	% Cover of	Biotic Crust	0	Present? Yes X No
Remarks:				•

SUIL

Profile De	scription: (Describe	to the de	epth needed	to document	the indica	tor or co	onfirm the absence of ind	icators.)				
Depth	Matrix			Redox Feat	ures		_					
(inches)	Color (moist)	%	Color (mo	oist) %	Type ¹	Loc ²	Texture	Remai	rks			
0-3	10YR 3/2	100					silt loam					
3-8	2.5Y 3/2	90	2.5Y 3/3	10	С	М	loam					
¹ Type: C=C	Concentration, D=Depletio	n, RM=R	educed Matrix,	, CS=Covered or	Coated Sa	nd Grains	² Location: PL=Pore Lining,	M=Matrix.				
Hvdric So	il Indicators: (Applica	able to a	II LRRs. unl	ess otherwise	noted.)		Indicators for Problem	atic Hydric Soils	³ :			
Histo	sol (A1)	1 cm Muck (A9) (L	RR C)									
	Epipedon (A2)		s	tripped Matrix (2 cm Muck (A10) (LRR B)						
Black	Histic (A3)		L	oamy Mucky Mi	ineral (F1)		Reduced Vertic (F18)					
 Hvdre	ogen Sulfide (A4)		L	oamv Gleved M	latrix (F2)		Red Parent Material (TF2)					
Strati	ified Lavers (A5) (LRR	C)	D	epleted Matrix	(F3)		Other (Explain in Remarks)					
1 cm	Muck (A9) (LRR D)	,		, Redox Dark Surf	ace (F6)							
Deple	eted Below Dark Surfac	e (A11)	D	epleted Dark S	urface (F7	.)						
Thick	Dark Surface (A12)	()	R	edox Depressio	ons (F8)	/	³ Indicators of hydrophytic vegetation and					
Sand	y Mucky Mineral (S1)		— v	, ernal Pools (F9))							
Sand	y Gleyed Matrix (S4)			Υ.	,		unless dis	turbed or problem	atic.			
Restrictiv	e Layer (if present):							•				
Type: Cl	ay hardpan											
Depth (inc	hes):		8			н	ydric Soil Present?	Yes	No	X		
Remarks: Re	edox faint.					!						

- - -

HYDROLOGY								
Wetland Hydrology Indic	ators:							
Primary Indicators (minimu	m of one requi	<u>red; che</u>	eck a	ll that apply)		Secondary Indicators (2 or more required)		
Surface Water (A1)		_		Salt Crust (B11)		Water Marks (B1) (Riverine)		
High Water Table (A2	2)	_		Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)		
Saturation (A3)				Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine)				Hydrogen Sulfide Odor (C1)		X Drainage Patterns (B10)		
Sediment Deposits (E	32) (Nonriverin	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)	X Saturation Visible on Aerial Imagery (C9)		
X Inundation Visible on	Aerial Imagery	(B7)		Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Water-Stained Leave	s (B9)	_		Other (Explain in Remarks)		FAC-Neutral Test (D5)		
Field Observations:								
Surface Water Present?	Yes	No _	Х	Depth (inches):				
Water Table Present?	Yes	No _	Х	Depth (inches):				
Saturation Present?	Yes	No _	Х	Depth (inches):	Wetland H	ydrology Present? Yes X No		
(includes capillary fringe)								
Describe Recorded Data (str	eam gauge, mo	onitoring	g wel	l, aerial photos, previous inspections	s), if available	3:		
Domarka, Evidence of OHW	A other indicat	ara (au	ah ar	a processo of outwart)				
Remarks. Evidence of OHWI	vi, other indicat	ors (suc	cn as	presenece of curvert).				

Project/Site:	West Davis Active	Adult		City/County:	Davis, Yolo C	County		Sampling Date: _		08/21/18
Applicant/Owner:	David Taormino (1	aormino & Associate	es)				State: CA	Sampling Poi	int: DP 09	
Investigator(s):	Matt Shaffer			Section,	, Township, R	lange:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Valley Floor		_ Local reli	ef (concave,	convex	(, none): <u>Concave</u>		Slope (%): <u><1</u>	
Subregion (LRR):	Mediterranean Ca	ifornia (LRR C)	Lat:		-121.77 ⁻	17033	Long:	38.56715432	Datum: NA	AD 83
Soil Map Unit Nan	ne: <u>Marvin silty</u>	r clay loam					NWI Classification:	None		
Are climatic / hydr	ologic conditions o	n the site typical for t	his time of	year?	Yes		No <u>X*</u>	(If no, explain in	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly o	disturbed?	Are "N	Normal Circumstanc	es" present?	Yes <u>X</u> No)
Are Vegetation	, Soil	, or Hydrology		naturally prob	olematic?	(If nee	eded, explain any an	swers in Remark	ks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X	No No No	X X	Is the Sampled Area within a Wetland?	Yes	No	<u> </u>
Remarks: Suspect patch of Festuca average for the 2018-2019 winter, a	perennis nd rain ev	in an /ents c	otherw occured	ise Avena d late in se	fatua dominant annual grassla ason.	nd. *Climactic co	nditions abnorr	nal, rainfall totals well-above

Tree Stratum (Plot cize:)	Absolute D % Cover S	ominant pecies?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
4		otal Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1		· -		Total % Cover of: Multiply by:
2		· -		OBL species x1 =0
3		·		FACW species $0 x^2 = 0$
4				FAC species <u>100</u> x3 = <u>300</u>
5				FACU species $0 \times 4 = 0$
	=I	otal Cover		UPL species $0 \times 5 = 0$
<u>Herb Stratum</u> (Plot size: <u>1 meter</u>)				Column Totals: <u>100</u> (A) <u>300</u> (B)
1. Festuca perennis	90	<u>Y</u>		Prevalence Index = B/A = <u>3.0</u>
	<u> </u>			
3. Avena ratua	<u> </u>			Hydrophytic Vegetation Indicators:
4. Carduus pychocephaius	<u> </u>		UPL	Dominance Test is >50%
5		· -		× Prevalence Index is ≤3.0°
6				Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation ¹ (Explain)
	100 =T	otal Cover		
<u>Woody Vine Stratum</u> (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
<u> </u>		otal Cover		Hydrophytic
% Bare Ground in Herb Stratum 0	% Cover of Bio	tic Crust	0	Present? Yes X No
Remarks:				

SUIL

	• •		•					-				
Depth	Matrix			Redox Featu	ures							
(inches)	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Texture	Remarks				
0-5	2.5Y 3/2	75	2.5Y 2.5/1	25	С	M	clay loam					
5-8	2.5Y 3/2	90	5Y 2.5/1	10	С	М	sandy loam					
							·					
17 0.0		·					2					
Type: C=C	Concentration, D=Depletic	on, RM=R	educed Matrix,	CS=Covered or	Coated San	d Grains.	Location: PL=Pore Lining	, M=Matrix.	3			
Hydric So	il Indicators: (Application	able to a	II LRRs, unle	ess otherwise	noted.)		Indicators for Problen	natic Hydric Soils	s":			
Histo	sol (A1)		S									
Histic	c Epipedon (A2)		Si	tripped Matrix (2 cm Muck (A10) (LRR B)						
Black	(Histic (A3)		Lo	bamy Mucky Mi	neral (F1)		Reduced Vertic (F18)					
Hydro	ogen Sulfide (A4)		Lo	oamy Gleyed M	atrix (F2)		Red Parent Material (TF2)					
Strati	ified Layers (A5) (LRR	C)	D	epleted Matrix (F3)		Other (Explain in I	Remarks)				
1 cm	Muck (A9) (LRR D)		R	edox Dark Surfa	ace (F6)							
 Deple	eted Below Dark Surfac	ce (A11)	D	epleted Dark Si	urface (F7)							
 Thick	Dark Surface (A12)	()		edox Depressio	ns (F8)		³ Indicators of hydrophytic vegetation and					
Sand	v Mucky Mineral (S1)			ernal Pools (F9)							
Sand	v Gleved Matrix (S4))		wetland hydrology must be present, unless disturbed or problematic					
Restrictiv	e Layer (if present):											
Type: Cl	av hardpan											
Depth (inc	hes):		8			н	/dric Soil Present?	Yes	No	Х		
	,											

HYDROLOGY

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

Project/Site:	West Davis Active Adult		City/County: Davis, Yolo	County		Sampling Date	08/21/18
Applicant/Owner:	David Taormino (Taormino &	Associates)			State: CA	Sampling Point	:: <u>DP 10</u>
Investigator(s):	Matt Shaffer		Section, Township,	Range:	S5, T8N, R2E		
Landform (hillslop	e, terrace, etc.): Valley F	loor	_ Local relief (concave	e, convex	, none): <u>Convex</u>	Slo	ope (%): <u><1</u>
Subregion (LRR):	Mediterranean California (LF	RC) Lat:	-121.7	716404	Long:	38.56711335	Datum: NAD 83
Soil Map Unit Nan	ne: <u>Marvin silty clay loam</u>				NWI Classification:	None	
Are climatic / hydr	ologic conditions on the site t	pical for this time of	year? Yes_		No <u>X*</u>	(If no, explain in F	Remarks.)
Are Vegetation	, Soil, or Hyd	Irology	significantly disturbed?	Are "N	Normal Circumstanc	es" present? Ye	s <u>X</u> No
Are Vegetation	, Soil, or Hyd	Irology	naturally problematic?	(If nee	eded, explain any an	swers in Remarks	.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No	X X X	Is the Sampled Area within a Wetland?	Yes	No	_ <u>x</u>
Remarks: Upland DP paired with DF late in season.	909. *Climad	ctic conditio	ons abnor	mal, rainfall totals well-above	average for the 20)18-2019 winter	, and rain events occured

	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)				Number of Dominant Species That Are OBL, FACW, or FAC:	
1		·		0 (A)	
2		·		Species Across All Strata	
3		·		(B)	
4		-Total Covor		Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:	
1				Total % Cover of: Multiply by:	
2				OBL species x1 =0	
3				FACW species x2 =0	
4				FAC species x3 =45	
5				FACU species x4 =0	
	0	=Total Cover		UPL species x5 =400	
<u>Herb Stratum</u> (Plot size: <u>1 meter²</u>)				Column Totals: 95 (A) 445 (B)	
1. <u>Avena fatua</u>	35	<u> </u>	UPL	Prevalence Index = B/A =4.7	
2. <u>Lepidium latifolium</u>	10		FAC		
3. Bromus hordeacous	20	<u>Y</u>	UPL	Hydrophytic Vegetation Indicators:	
4. Trifolium hirtum	5		UPL	Dominance Test is >50%	
5. <u>Centaurea solstitialis</u>	20	<u>Y</u>	UPL	Prevalence Index is ≤3.0 ¹	
6. <i>Festuca perennis</i>	5		FAC	Morphological Adaptationd ¹ (Provide supporting	
7. <u>Hordeum murinum</u>	T		FACU	data in Remarks or on a separate sheet)	
8				Problematic Hydrophytic Vegetation ¹ (Explain)	
	95	=Total Cover			
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must	
1				be present, unless disturbed or problematic.	
2				Hydrophytic	
		=Total Cover		Vegetation	
% Bare Ground in Herb Stratum 5	% Cover of	Biotic Crust	0	Present? Yes No X	
Remarks:					

SUIL	S	ο	I	L
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Depth (inches) Color 0-10 2.5Y 3/2 	Matrix % (moist) % 80	Color 2.5Y 4/3 2.5Y 2.5 Reduced Ma	Re (moist) 3 5/1	edox Featu 	Type1 I C M C M	_oc ²	Texture silty loam	Remarks	S	
(inches) Color 0-10 2.5Y 3/2	n, D=Depletion, RM=	Color 2.5Y 4/3 2.5Y 2.5 Reduced Ma	(moist) 3 5/1 	 	Type1 M C M	_oc ²	Texture silty loam	Remarks	S	
0-10 2.5Y 3/2	n, D=Depletion, RM=	2.5Y 4/3 2.5Y 2.5 2.5Y 2.5 Reduced Ma	3 5/1	5 	C M C M 	Grains.	silty loam	M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	2.5Y 2.5	5/1	5 	C M	Grains.		M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma				Grains.		M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma	atrix, CS=C			Grains.		M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma	atrix, CS=C		Coated Sand (Grains.		M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma	atrix, CS=C	Covered or (Coated Sand (Grains.		M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma	atrix, CS=C	Covered or (Coated Sand (Grains.		M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma	atrix, CS=C	covered or (Coated Sand (Grains.	² Location: PL=Pore Lining L	M=Matrix.		
¹ Type: C=Concentratio Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	n, D=Depletion, RM=	Reduced Ma	atrix, CS=C	overed or	Coated Sand (Grains.	² Location: PL=Pore Lining	M=Matrix.		
Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	a, Annliachta ta	all I RRs I					Location. FL-FOIE LINING, I			
Hydric Soil Indicato Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below		all I RRC I						······································		
Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	rs: (Applicable to	an Eixits, t	unless of	therwise i	noted.)		Indicators for Problema	atic Hydric Soils":		
Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	()		_ Sandy F	Redox (S5)					
Black Histic (A3 Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below	(A2)		_ Stripped	d Matrix (S	S6)		2 cm Muck (A10) (L	.RR B)		
Hydrogen Sulfid Stratified Layers 1 cm Muck (A9) Depleted Below)		_ Loamy I	Mucky Mi	neral (F1)		Reduced Vertic (F1	8)		
Stratified Layers 1 cm Muck (A9) Depleted Below	Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						Red Parent Materia	l (TF2)		
1 cm Muck (A9) Depleted Below	Stratified Layers (A5) (LRR C) Depleted Matrix (F3)						Other (Explain in Remarks)			
Depleted Below	1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)									
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)										
Thick Dark Surface (A12)						³ Indicators of hydrophytic vegetation and wetland hydrology must be present.				
Sandy Mucky Mineral (S1) Vernal Pools (F9)										
Sandy Gleyed N	Sandy Gleyed Matrix (S4)						unless disturbed or problematic.			
Restrictive Layer (if	present):									
Type: Clay hardpar										
Depth (inches):		10				Hyd	Iric Soil Present?	Yes	No X	
Domorko: Dodov foint	l									

HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)					
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)					
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)					
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)					
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along I	∟iving 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 (C						
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):	_					
Water Table Present? Yes No X Depth (inches):	_					
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						
WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	West Davis Active Adult	City/County: Davis, Yolo County		Sampling Date:	08/19/19
Applicant/Owner:	David Taormino (Taormino & Associates)		State: CA	Sampling Point:	DP 11
Investigator(s):	Matt Shaffer	Section, Township, Range:	S5, T8N, R2E		
Landform (hillslop	e, terrace, etc.): <u>Terrace</u>	Local relief (concave, conve	(, none): <u>None</u>	Slop	oe (%):0
Subregion (LRR):	Mediterranean California (LRR C) La	at:121.779698	Long:	38.568945	Datum: NAD 83
Soil Map Unit Nan	ne: Pescadero silty clay, saline-alkali		NWI Classification:	None	
Are climatic / hydr	ologic conditions on the site typical for this time	of year? Yes X	No	(If no, explain in Re	emarks.)
Are Vegetation	, Soil, or Hydrology	significantly disturbed? Are "I	Normal Circumstance	es" present? Yes	No
Are Vegetation	, Soil, or Hydrology	naturally problematic? (If nee	eded, explain any an	swers in Remarks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	NoNO_NO	X X X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>	
Remarks: Disked agricultural field ir	a previou	isly mapped	wetland p	bint. No vegetation.			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Iree Stratum (Plot size:) 1))		·		That Are OBL, FACW, or FAC:(A)
2 3.				Total Number of Dominant Species Across All Strata: 0 (B)
4	0	=Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
2.				$\begin{array}{c c c c c c c c c c c c c c c c c c c $
3.		·		FACW species x2 = 0
4.				FAC speciesx3 =0
5				FACU species x4 =0
	0	=Total Cover		UPL species x5 =0
<u>Herb Stratum</u> (Plot size: <u>1 meter</u> ²)				Column Totals:(A)(B) Prevalence Index = B/A =
2.				
3.		·		Hydrophytic Vegetation Indicators:
4.				Dominance Test is >50%
5.				Prevalence Index is $\leq 3.0^1$
6				Morphological Adaptationd ¹ (Provide supporting
8		·		Problematic Hydrophytic Vegetation ¹ (Explain)
··	0	=Total Cover		
Woody Vine Stratum (Plot size:) 1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Hydrophytic
% Bare Ground in Herb Stratum100	% Cover of	Biotic Crust	0	Present? Yes No X
Remarks: Disked agricultural field; no living vegetation	present. Sca	ittered small p	pieces of de	ead grasses (possibly Avena).

SOIL	
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Depth	Matrix		Re	edox Featur	res					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks	
-6	2.5Y 2.5/1	100								
/pe: C=(Concentration, D=Depletio	on, RM=Rec	luced Matrix, CS=0	Covered or C	oated Sa	nd Grains.	² Location: PL=Pore Lining,	M=Matrix.	3.	
aric So	II Indicators: (Abbiica	adie to all	LKKS. Unless of	therwise n	oted.)		Indicators for Problem	atic Hydric Solis		
Lioto			Sondy	Podov (SE)	,					
– Histo	osol (A1)		Sandy	Redox (S5)	e)		1 cm Muck (A9) (L	RR C)		
– Histo	osol (A1) c Epipedon (A2)		Sandy Strippe	Redox (S5) d Matrix (S	6)		1 cm Muck (A9) (L 2 cm Muck (A10) (RR C) LRR B)		
Histo Histio Blacl	c Epipedon (A2) Histic (A3)		Sandy Strippe Loamy	Redox (S5) d Matrix (S Mucky Min	6) eral (F1)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F	RR C) LRR B) 18)		
Histo Histio Blacl Hydr	osol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4)		Sandy Strippe Loamy Loamy	Redox (S5) d Matrix (S Mucky Min Gleyed Ma	6) eral (F1) trix (F2)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materia	RR C) LRR B) 18) al (TF2)		
Histo Histo Blacl Hydr Strat	osol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR	C)	Sandy Strippe Loamy Deplete	Redox (S5) d Matrix (S Mucky Min Gleyed Ma ed Matrix (F	6) eral (F1) trix (F2) 3)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F ² Red Parent Materia Other (Explain in R	RR C) LRR B) 18) al (TF2) temarks)		
Histo Histo Blacl Hydr Strat	osol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D)	C)	Sandy Strippe Loamy Loamy Deplete Redox	Redox (S5) d Matrix (S Mucky Min Gleyed Ma ed Matrix (F Dark Surfa	6) eral (F1) trix (F2) ⁽³⁾ ce (F6)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materia Other (Explain in R	RR C) LRR B) 18) al (TF2) temarks)		
Histo Histo Blacl Hydr Strat Depl	sol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac	C) ce (A11)	Sandy Strippe Loamy Loamy Beplete Redox Deplete	Redox (S5) d Matrix (S Mucky Min Gleyed Ma ed Matrix (F Dark Surfac ed Dark Surfac	6) eral (F1) trix (F2) 53) ce (F6) face (F7)	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materia Other (Explain in R	RR C) LRR B) 18) al (TF2) iemarks)		
Histo Histo Blacd Hydr Strat Crat Depl Thicl	ssol (A1) c Epipedon (A2) d Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac d Dark Surface (A12)	C) ce (A11)	Sandy Strippe Loamy Loamy Deplete Redox Redox Redox	Redox (S5) d Matrix (S Mucky Min Gleyed Ma ed Matrix (F Dark Surfa ed Dark Sur Depression	6) eral (F1) trix (F2) 53) ce (F6) face (F7) is (F8))	1 cm Muck (A9) (L 2 cm Muck (A10) (l Reduced Vertic (F Red Parent Materia Other (Explain in R	RR C) LRR B) 18) al (TF2) Lemarks)	ation and	
Histo Histo Blacl Hydr Strat Depl Thicl Sanc	osol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac < Dark Surface (A12) by Mucky Mineral (S1)	C) ce (A11)	Sandy Strippe Loamy Loamy Deplete Redox Redox Vernal	Redox (S5) d Matrix (S0 Mucky Min Gleyed Ma ed Matrix (F Dark Surfac ed Dark Surfac d Dark Surfac Depression Pools (F9)	6) eral (F1) trix (F2) :3) ce (F6) face (F7) is (F8))	1 cm Muck (A9) (L 2 cm Muck (A10) (l Reduced Vertic (F Red Parent Materia Other (Explain in R	RR C) LRR B) 18) al (TF2) temarks) hydrophytic vegeta trology must be pr	ation and esent,	
Histo Histid Blacl Hydr Strat Depl Depl Sanc Sanc	sol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surfac < Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4)	C) ce (A11)	Sandy Strippe Loamy Deplete Redox Deplete Redox Vernal	Redox (S5) d Matrix (S0 Mucky Min Gleyed Ma ed Matrix (F Dark Surfac ed Dark Surfac Depression Pools (F9)	6) eral (F1) trix (F2) :3) ce (F6) face (F7 s (F8))	1 cm Muck (A9) (L 2 cm Muck (A10) (l Reduced Vertic (F Red Parent Materia Other (Explain in R ³ Indicators of l wetland hyc unless dis	RR C) LRR B) 18) al (TF2) temarks) hydrophytic vegeta frology must be pr turbed or problem	ation and esent, atic.	
Histo Histi Blacl Hydr Strat Depl Thicl Sanc Sanc estrictiv	sol (A1) c Epipedon (A2) < Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface < Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) e Layer (if present):	C) ce (A11)	Sandy Strippe Loamy Loamy Deplete Redox Redox Vernal	Redox (S5) d Matrix (S Mucky Min Gleyed Ma ed Matrix (F Dark Surfac ed Dark Sur Depression Pools (F9)	6) eral (F1) trix (F2) 3) ce (F6) face (F7) is (F8))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materia Other (Explain in R ³ Indicators of I wetland hyc unless dis	RR C) LRR B) 18) al (TF2) temarks) hydrophytic vegeta trology must be pr trurbed or problem	ation and esent, natic.	
Histo Histi Black Hydr Strat Depl Thick Sanc Sanc estrictiv	sol (A1) c Epipedon (A2) (Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12) dy Mucky Mineral (S1) dy Gleyed Matrix (S4) e Layer (if present): ay hardpan	C) ce (A11)	Sandy Strippe Loamy Loamy Beplete Redox Beplete Vernal	Redox (S5) d Matrix (S Mucky Min Gleyed Ma ed Matrix (F Dark Surfac ed Dark Sur Depression Pools (F9)	6) eral (F1) trix (F2) 3) ce (F6) face (F7) is (F8))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materia Other (Explain in R ³ Indicators of I wetland hyc unless dis	RR C) LRR B) 18) al (TF2) .emarks) hydrophytic vegeta trology must be pr .turbed or problem	ation and esent, atic.	

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

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	West Davis Active	City/County: Davis, Yolo County			Sampling I		:e:	08/19/19		
Applicant/Owner:	David Taormino (T	aormino & Associates)				State: CA	Sampling Poi	nt: DP 12	
Investigator(s):	Matt Shaffer			Section	, Township,	Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Terrace		Local rel	ief (concave	, convex	(, none): <u>None</u>	s	Slope (%):	0
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:		-121.	779961	Long:	38.569019	Datum:	NAD 83
Soil Map Unit Nan	ne: Pescadero	silty clay, saline-alkali					NWI Classification:	None		
Are climatic / hydr	ologic conditions or	n the site typical for this	s time of	year?	Yes	Х	No	(If no, explain in	Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly of	disturbed?	Are "N	Normal Circumstanc	es" present? Y	′es <u>X</u>	No
Are Vegetation	, Soil	, or Hydrology		naturally prol	blematic?	(If nee	eded, explain any an	swers in Remark	s.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	NoNO_NO	X X X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>	
Remarks: Paired upland DP w/ DP	12 (from pi	revious ARE	D). Within c	lisked field with no vegetation.			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:) 1.	Absolute % Cover Dominant Species? Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 0 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:) 1.		Prevalence Index Worksheet: Total % Cover of: Multiply by: OBL species x1 = FACW species x2 = 0 x3 =
4	=Total Cover	FAC species $x3 = 0$ FACU species $x4 = 0$ UPL species $x5 = 0$ Column Totals: (A) 0 (B) Prevalence Index = B/A = (B) (B)
2		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) 1	0 =Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
% Bare Ground in Herb Stratum 100 Remarks: Within disked field, no vegetation present.	% Cover of Biotic Crust0	Present? Yes No X

SOIL	
------	--

Jepin	Matrix			Re	edox Feat	ures							
inches)	Color (moist)	%	Color	r (moist)	%	Type ¹	Loc ²	Texture	Remarks		Remarks		
)-6	2.5Y 3/2	99	2.5Y 4	/3	1	С	М	loam					
ype: C=C	Concentration, D=Depletic	on, RM=R	educed M	latrix, CS=0	Covered or	Coated Sa	nd Grains	² Location: PL=Pore Lining	M=Matrix.				
ydric So	il Indicators: (Applic	able to a	II LRRs,	, unless o	therwise	noted.)		Indicators for Problem	atic Hydric Soils	³ :			
Histo	sol (A1)			Sandy	Redox (S	5)		1 cm Muck (A9) (L	RR C)				
_ Histic	Epipedon (A2)			Strippe	d Matrix (S6)		2 cm Muck (A10) (LRR B)					
Black	Histic (A3)			Loamy	Mucky Mi	neral (F1)		Reduced Vertic (F18)					
– Hydro	ogen Sulfide (A4)			 Loamy	Gleyed M	atrix (F2)		Red Parent Materi	al (TF2)				
Strati	fied Layers (A5) (LRR	C)		Deplete	ed Matrix	(F3)		Other (Explain in F	Remarks)				
— 1 cm	Muck (A9) (LRR D)	,		 Redox	Dark Surf	ace (F6)							
– Deple	eted Below Dark Surfac	ce (A11)		Deplete	ed Dark S	urface (F7	.)						
_ · Thick	Dark Surface (A12)	()		 Redox	Depressio	ons (F8)	/	3					
— Sand	v Mucky Mineral (S1)			– Vernal	Pools (F9)		Indicators of hydrophytic vegetation and					
Sand	y Gleyed Matrix (S4)					/		unless di	sturbed or problem	esent, natic.			
estrictive	e Layer (if present):												
ype: Cla	ay hardpan												
epth (incl	hes):		6				Ну	dric Soil Present?	Yes	No	Х		
							נחן	yund Juli Flesent?	103		_		

HYDROLOGY

Secondary Indicators (2 or more required)
Water Marks (B1) (Riverine)
Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Riverine)
Drainage Patterns (B10)
oots (C3) Dry-Season Water Table (C2)
Crayfish Burrows (C8)
C6) Saturation Visible on Aerial Imagery (C9)
Shallow Aquitard (D3)
FAC-Neutral Test (D5)
Vetland Hydrology Present? Yes <u>No X</u>
if available:
· · · ·

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	West Davis Active	Adult		City/County:	Davis, Yolo	County		Sampling Da	ite:	08/19/19
Applicant/Owner:	David Taormino (T	aormino & Associates)				State: CA	Sampling Po	int: DP 13	
Investigator(s):	Matt Shaffer			Section	, Township, I	Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Terrace		Local rel	ief (concave,	, convex	(, none): <u>None</u>		Slope (%):	0
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:		-121	.78068	Long:	38.56911	Datum:	NAD 83
Soil Map Unit Nan	ne: Pescadero	silty clay, saline-alkali					NWI Classification:	None		
Are climatic / hydr	ologic conditions or	n the site typical for thi	s time of	year?	Yes	Х	No	(If no, explain ir	n Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "I	Normal Circumstanc	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If nee	eded, explain any an	swers in Remarl	ks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	NoNO_NO	X X X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>	
Remarks: Suspect area of slightly da	arker soil \	within disked	d agricultur	al field. No vegetation.			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1				Inal Are OBL, FACW, of FAC: 0 (A)
2 3				Total Number of Dominant Species Across All Strata: 0 (B)
4	0	=Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:0% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1		·		
2		·		
З		·		FAC species $x_3 = 0$
5		·		FACU species $x4 = 0$
·	0	=Total Cover		UPL species $x5 = 0$
Herb Stratum (Plot size: <u>1 meter²</u>)				Column Totals: (A) 0 (B)
1.				Prevalence Index = B/A =
2				
3				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				Prevalence Index is ≤3.0 ¹
6		·		Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation ¹ (Explain)
	0	=Total Cover		
Woody Vine Stratum (Plot size:) 1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		=Total Cover		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 100	% Cover of	Biotic Crust	0	Present? Yes No X
Remarks: No vegetation.				

SOIL

Depth	Matrix			Re	dox Featı	ures					
inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	Texture	Remar	ks	
)-8	10YR 2/2	99	10YR 4	/3	1	С	М	silty clay			
Type: C=C	Concentration, D=Depletion	n, RM=Re	educed Ma	atrix, CS=C	overed or	Coated Sa	nd Grains.	² Location: PL=Pore Lining	, M=Matrix.		
vdric So	il Indicatore: (Annlica	blo to a		unlaga at	horwise	noted)		Indicators for Problem	atic Hydric Soile ³		
yune oo	in mulcators. (Applica	ible to a	II LKKS,	uniess of	iiei wise	noteu.)		indicators for Froblen	latic Hyune Solis	•	
Histo	sol (A1)			Sandy F	Redox (St	5)		1 cm Muck (A9) (L	.RR C)	•	
Histo Histic	sol (A1) Epipedon (A2)		II LKKS,	Sandy F	Redox (S5 Matrix (S	5) S6)		1 cm Muck (A9) (L 2 cm Muck (A10) (IRR C)		
_ Histo _ Histic _ Black	sol (A1) Epipedon (A2) Histic (A3)		II LKRS, 	Sandy F Stripped Loamy I	Redox (SS Matrix (S Mucky Mi	5) 56) neral (F1)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F	.RR C) LRR B) 18)		
Histo Histic Black Hydro	sol (A1) Epipedon (A2) (Histic (A3) ogen Sulfide (A4)		II LRRS, 	Sandy F Stripped Loamy I	Redox (St d Matrix (\$ Mucky Mi Gleyed M	5) S6) neral (F1) atrix (F2)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi	IRR C) LRR B) 18) al (TF2)		
Histo Histic Black Hydro Strati	sol (A1) Epipedon (A2) Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (C)	II LRRS, 	Sandy F Stripped Loamy f Loamy f Deplete	Redox (St d Matrix (S Mucky Mi Gleyed M d Matrix (5) S6) neral (F1) atrix (F2) (F3)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	RR C) LRR B) 18) al (TF2) Remarks)		
Histo Histic Black Hydro Strati 1 cm	sol (A1) Epipedon (A2) Histic (A3) ogen Sulfide (A4) ffied Layers (A5) (LRR (Muck (A9) (LRR D)	C)		Sandy F Stripped Loamy f Deplete Redox I	Redox (S5 Matrix (S Mucky Mi Gleyed M d Matrix (Dark Surfa	5) S6) neral (F1) atrix (F2) (F3) ace (F6)		1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	RR C) LRR B) 18) al (TF2) Remarks)		
_ Histo _ Histic _ Black _ Hydro _ Strati _ 1 cm _ Deple	sol (A1) Epipedon (A2) Histic (A3) ogen Sulfide (A4) fied Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surfac	C) e (A11)		Sandy F Stripped Loamy f Deplete Redox I Deplete	Redox (St I Matrix (S Mucky Mi Gleyed M d Matrix (Dark Surfa d Dark Su	5) S6) atrix (F1) atrix (F2) (F3) ace (F6) urface (F7))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	RR C) LRR B) 18) al (TF2) Remarks)		
Histo Histic Black Hydro Strati 1 cm Deple Thick	sol (A1) Epipedon (A2) Histic (A3) ogen Sulfide (A4) fied Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12)	C) e (A11)		Sandy F Stripped Loamy f Loamy f Deplete Redox f Redox f	Redox (St d Matrix (St Mucky Mi Gleyed M d Matrix (Dark Surfa d Dark Su Depressio	5) S6) neral (F1) atrix (F2) (F3) ace (F6) urface (F7) ons (F8))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	RR C) LRR B) 18) al (TF2) Remarks)		
Histo Histic Black Hydro Strati 1 cm Deple Thick Sand	sol (A1) c Epipedon (A2) c Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surfac c Dark Surface (A12) ly Mucky Mineral (S1)	C) e (A11)	II LRRS, 	Sandy F Stripped Loamy f Loamy f Deplete Redox I Redox I Redox I	Redox (St d Matrix (St Mucky Mi Gleyed M d Matrix (Dark Surfa d Dark Su Depressio Pools (F9	5) S6) neral (F1) atrix (F2) (F3) ace (F6) urface (F7 ons (F8)))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	Alter Hydric Sons RR C) LRR B) 18) al (TF2) Remarks) hydrophytic vegeta	tion and	
Histo Histo Black Hydro Strati Deple Sand Sand	sol (A1) c Epipedon (A2) d Histic (A3) ogen Sulfide (A4) ffied Layers (A5) (LRR (Muck (A9) (LRR D) eted Below Dark Surface d Dark Surface (A12) ly Mucky Mineral (S1) ly Gleyed Matrix (S4)	C) e (A11)	II LRRS, 	Sandy F Stripped Loamy f Loamy f Deplete Redox I Redox I Vernal F	Redox (St Matrix (St Mucky Mi Gleyed M d Matrix (Dark Suffa d Dark Su Depressio Pools (F9	5) S6) neral (F1) atrix (F2) (F3) ace (F6) urface (F7 ons (F8)))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	Ante Hydric Sons RR C) LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pre sturbed or problema	tion and esent, atic.	
Histo Histo Black Hydro Strati Deple Thick Sand Sand	sol (A1) Epipedon (A2) Histic (A3) ogen Sulfide (A4) ified Layers (A5) (LRR 0 Muck (A9) (LRR D) eted Below Dark Surface Dark Surface (A12) y Mucky Mineral (S1) y Gleyed Matrix (S4) E Layer (if present):	C) e (A11)		Sandy F Stripped Loamy f Loamy f Deplete Redox I Redox I Vernal F	Redox (SE Matrix (S Mucky Mi Gleyed M d Matrix (Dark Sufa d Dark Su Depressio Pools (F9	5) S6) atrix (F2) (F3) ace (F6) urface (F7) ons (F8)))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	ARR C) LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pre- sturbed or problem:	tion and esent, atic.	
Histo Histo Black Hydro Strati Deple Sand Sand Cestrictive	sol (A1) c Epipedon (A2) d Histic (A3) ogen Sulfide (A4) fied Layers (A5) (LRR 0) Muck (A9) (LRR D) eted Below Dark Surface d Dark Surface (A12) ly Mucky Mineral (S1) ly Gleyed Matrix (S4) e Layer (if present): ay hardpan	C) e (A11)		Sandy F Stripped Loamy f Loamy f Deplete Redox f Redox f Vernal F	Redox (St Matrix (St Mucky Mi Gleyed M d Matrix (Dark Surfa d Dark Su Depressio Pools (F9	5) S6) atrix (F2) (F3) ace (F6) urface (F7 ons (F8)))	1 cm Muck (A9) (L 2 cm Muck (A10) (Reduced Vertic (F Red Parent Materi Other (Explain in F	Alter Hydric Sons RR C) LRR B) 18) al (TF2) Remarks) hydrophytic vegeta drology must be pre sturbed or problema	tion and esent, atic.	

HYDROLOGY

HYDROLOGY							
Wetland Hydrology Indica	ators:						
Primary Indicators (minimur	m of one required; c	heck all that app	ly)	<u> </u>	econdary Indicators (2 or more required)	
Surface Water (A1)		Salt Crust	(B11)	_	Water Marks (B1	1) (Riverine)	
High Water Table (A2	')	Biotic Cru	st (B12)	_	Sediment Deposits (B2) (Riverine)		
Saturation (A3)		Aquatic In	vertebrates (B13)		Drift Deposits (B3) (Riverine)		
Water Marks (B1) (No	onriverine)	Hydrogen	Sulfide Odor (C1)		Drainage Patterns (B10)		
Sediment Deposits (B	2) (Nonriverine)	Oxidized F	Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)		
Drift Deposits (B3) (N	onriverine)	Presence	of Reduced Iron (C4)		Crayfish Burrows	s (C8)	
Surface Soil Cracks (F	36)	 3 (C6)	Saturation Visible on Aerial Imagery (C9)				
Inundation Visible on	Aerial Imagery (B7)		Shallow Aquitard (D3)				
Water-Stained Leaves	Water-Stained Leaves (B9) Other (Explain in Remarks)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes No	X Depth (i	nches):				
Water Table Present?	Yes No	X Depth (i	nches):				
Saturation Present?	Yes No	X Depth (i	nches):	Wetland Hyd	Irology Present?	Yes No X	
(includes capillary fringe)							
Describe Recorded Data (stre	am gauge, monitori	ing well, aerial pl	notos, previous inspections	s), if available:			
Remarks: No hydrology							

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	West Davis Active	Adult		City/County: D	avis, Yolo (County		Sampling Date	:	08/19/19
Applicant/Owner:	David Taormino (T	aormino & Associat	es)				State: CA	Sampling Poin	t: <u>DP 14</u>	
Investigator(s):	Matt Shaffer			Section, T	Township, F	Range:	S5, T8N, R2E			
Landform (hillslop	e, terrace, etc.):	Terrace		_ Local relief	(concave,	convex	k, none): <u>None</u>	Sl	ope (%):	0
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:		-121.7	79738	Long:	38.569316	Datum:	NAD 83
Soil Map Unit Nan	ne: Pescadero	silty clay, saline-alk	ali				NWI Classification:	None		
Are climatic / hydr	ologic conditions or	n the site typical for t	his time of	year?	Yes	Х	No	(If no, explain in F	Remarks.)	
Are Vegetation	, Soil	_, or Hydrology		significantly dis	sturbed?	Are "I	Normal Circumstanc	es" present? Ye	es X	No
Are Vegetation	, Soil	, or Hydrology		naturally proble	ematic?	(If nee	eded, explain any an	swers in Remarks	.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No	X X X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>	
Remarks: Previously mapped wetlar	nd point, nov	w disked aç	gricultural	field.			

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				Percent of Dominant Species
	0	=Total Cove	r	That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
1		·		I otal % Cover of: Multiply by:
2		·		OBL species x1 = 0
3				FACW species $x^2 = 0$
4				FAC species $x3 = 0$
5				FACU species x4 =0
2	0	=Total Cove	r	UPL species x5 =0
<u>Herb Stratum</u> (Plot size: <u>1 meter</u>)				Column Totals:(A)(B)
1				Prevalence Index = B/A =
2				
3				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				Prevalence Index is ≤3.0 ¹
6				Morphological Adaptationd ¹ (Provide supporting
7				data in Remarks or on a separate sneet)
8		·		Problematic Hydrophytic Vegetation (Explain)
	0	=Total Cove	r	
Woody Vine Stratum (Plot size:)				Indicators of hydric soil and wetland hydrology must
1		·		be present, unless disturbed of problematic.
2				Hydrophytic
		=Total Cove	r	Vegetation
% Bare Ground in Herb Stratum 100	% Cover of	Biotic Crust	0	Present? Yes No X
Remarks: No vegetation				

SOIL

•	Matrix			Red	lox Featu	ures				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	rks
)-8	2.5Y 3/2	90	2.5Y 2.5	/1	10	С	Μ	loam		
								·		
								·		
ype: C=C	Concentration, D=Depletio	on, RM=R	educed Mat	trix, CS=Co	overed or	Coated Sa	nd Grains.	² Location: PL=Pore Lining,	M=Matrix.	
dric So	il Indicators: (Applica	able to a	ll LRRs, ι	Inless oth	nerwise	noted.)		Indicators for Problem	atic Hydric Soils ³	³ :
_ Histo	sol (A1)			Sandy R	edox (S5	5)		1 cm Muck (A9) (L	RR C)	
– Histio	c Epipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black	(A3)			Loamy N	lucky Mi	neral (F1)		Reduced Vertic (F18)		
			Loamy Cloved Matrix (E2)			atrix (F2)		Red Parent Material (TF2)		
Hydro	ogen Sulfide (A4)	Loarny Gleyed Matrix (F2)					Red Parent Materia	al (TF2)		
_ Hydro Strati	ogen Sulfide (A4) ified Layers (A5) (LRR (C)		Depleted	d Matrix (F3)		Other (Explain in F	al (TF2) Remarks)	
_ Hydro _ Strati 1 cm	ogen Sulfide (A4) ified Layers (A5) (LRR / Muck (A9) (LRR D)	C)	_	Depleted Redox D	d Matrix (ark Surfa	(F3) ace (F6)		Other (Explain in F	al (TF2) Remarks)	
_ Hydro _ Strati _ 1 cm _ Deple	ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) ated Below Dark Surfac	C) ce (A11)		Depleted Redox D	ark Surfa Dark Surfa	F3) ace (F6) urface (F7)	Content Materia Other (Explain in F	al (1F2) Remarks)	
Hydro Strati 1 cm Deple Thick	ogen Sulfide (A4) ified Layers (A5) (LRR Muck (A9) (LRR D) eted Below Dark Surface (A12)	C) ce (A11)		Depleted Redox D Depleted Redox D	Matrix (ark Surfa Dark Su	ETA (F3) ace (F6) urface (F7 ons (F8))	Red Parent Materia Other (Explain in F	al (TF2) Remarks)	
Hydro Strati 1 cm Deple Thick Sand	ogen Sulfide (A4) ified Layers (A5) (LRR 0) eted Below Dark Surfac (Dark Surface (A12)	C) ce (A11)		Depleted Redox D Depleted Redox D Vernal P	ark Surfa Dark Surfa Dark Surfa epressio	(F3) ace (F6) urface (F7 ons (F8))	Other (Explain in F	al (TF2) Remarks) hydrophytic vegeta	ation and
Hydro Strati 1 cm Deple Thick Sand Sand	ogen Sulfide (A4) ified Layers (A5) (LRR D) eted Below Dark Surfac & Dark Surface (A12) ly Mucky Mineral (S1)	C) ce (A11)		Depleted Redox D Depleted Redox D Vernal P	ark Surfa Dark Surfa Dark Su Ppressio ools (F9)	ace (F6) ace (F6) urface (F7 ons (F8)))	Other (Explain in F Other (Explain in F ³ Indicators of wetland hyo unless dis	al (TF2) Remarks) hydrophytic vegeta drology must be pro sturbed or problem	ation and esent, atic.
Hydro Strati 1 cm Deplo Thick Sand Sand	ogen Sulfide (A4) ified Layers (A5) (LRR D) Muck (A9) (LRR D) eted Below Dark Surface (Dark Surface (A12) y Mucky Mineral (S1) y Gleyed Matrix (S4) e Layer (if present):	C) ce (A11)		Depleted Redox D Depleted Redox D Vernal P	ark Surfa Dark Surfa Dark Su epressio ools (F9)	(F2) ace (F6) urface (F7 ons (F8))	Other (Explain in F	al (TF2) Remarks) hydrophytic vegeta drology must be pro sturbed or problem	ition and esent, atic.
Hydro Strati Deple Thick Sand Sand estrictiv	ogen Sulfide (A4) ified Layers (A5) (LRR D) eted Below Dark Surfac & Dark Surface (A12) ly Mucky Mineral (S1) ly Gleyed Matrix (S4) e Layer (if present): ay hardpan	C) ce (A11)		Depleted Redox D Depleted Redox D Vernal P	ark Surfa I Matrix (Dark Surfa Dark Su epressio ools (F9)	(F2) ace (F6) urface (F7 ons (F8)))	Content Materia Other (Explain in F Other (Explain in F ³ Indicators of wetland hyo unless dis	al (TF2) Remarks) hydrophytic vegeta drology must be pro sturbed or problem	ation and esent, atic.

HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; of	check all that apply)	Secondary Indicators (2 or more required)		
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)		
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)		
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine)	oots (C3) Dry-Season Water Table (C2)			
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	C6) Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes No	X Depth (inches):			
Water Table Present? Yes No	X Depth (inches):			
Saturation Present? Yes No	X Depth (inches):	Netland Hydrology Present? Yes No X		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections),	if available:		
Pomorko: No hydrology				
Remarks. No hydrology.				

Aquatic Resources Delineation Map



Plant Species Observed within the Study Areas

Plant Species Observed within the West Davis Active Adult Study Areas 16, 17, 21 August 2018; 31 May, 19 August 2019

_		Wetland Indicator
Species Name	Common Name	Status
Acer negundo	Box elder	FACW
Achyrachaena mollis	Blow wives	FAC
Amaranthus albus	Pigweed amaranth	FACU
Amsinckia intermedia	Common fiddleneck	UPL
Anthemis cotula	Mayweed	FACU
Asclepias fascicularis	Narrow leaf milkweed	FAC
Atriplex argentea var. expansa	Mojave silverscale	FAC
Avena barbata	Slender wild oat	UPL
Avena fatua	Wild oat	UPL
Baccharis pilularis subsp. pilularis	Coyote brush	UPL
Brassica nigra	Black mustard	UPL
Briza minor	Annual quaking grass	FAC
Bromus diandrus	Ripgut brome	UPL
Bromus hordeaceus	Soft chess	FACU
Carduus pycnocephalus subsp. pycnocephalus	Italian thistle	UPL
Centaurea solstitialis	Yellow star-thistle	UPL
Centromadia fitchii	Fitch's spikeweed	FACU
Centromadia pungens	Common spikeweed	FAC
Convolvulus arvensis	Field bindweed	UPL
Cressa truxillensis	Alkali weed	FACW
Croton setiger	Turkey-mullein	UPL
Crypsis schoenoides	Swamp grass	FACW
Cucurbita pepo var. pepo	Field pumpkin	UPL
Cuscuta campestris	Field dodder	UPL
Cyperus eragrostis	Tall flatsedge	FACW
Cyperus involucratus	Umbrella plant	FACW
Distichlis spicata	Saltgrass	FAC
Dittrichia graveolens	Stinkwort	UPL
Echinochloa crus-galli	Watergrass	FACW
Elymus glaucus	Western wild-rye	FACU
Elymus ponticus	Tall wheat grass	UPL
Elymus triticoides	Beardless wild-rye	FAC
Epilobium brachycarpum	Panicled willow-herb	FAC
Epilobium ciliatum subsp. ciliatum	Fringed willow-herb	FACW
Erodium botrys	Filaree	FACU
Extriplex joaquinana	San Joaquin spearscale	FACU
Festuca bromoides	Brome fescue	FACU
Festuca myuros	Rattail sixweeks grass	FACU
Festuca perennis	Perennial ryegrass	FAC

Frankenia salina	Alkali heath	FACW
Fraxinus latifolia	Oregon ash	FACW
Galium aparine	Sticky willy	FACU
Geranium dissectum	Cut-leaf geranium	UPL
Glycine max	Soybean	UPL
Heteromeles arbutifolia	Toyon	UPL
Holocarpha virgata	Narrow tarplant	UPL
Hordeum marinum subsp. gussoneanum	Mediterranean barley	FAC
Hordeum murinum	Wall barley	FACU
Juglans hindsii	Northern California black walnut	UPL
Juncus bufonius	Toad rush	FACW
Juniperus sp.	Juniper	FACU
Lactuca serriola	Prickly lettuce	FACU
Leontodon saxatilis subsp. saxatilis	Hairy hawkbit	FACU
Lepidium latifolium	Perennial pepperweed	FAC
Lupinus bicolor	Miniature lupine	UPL
Lythrum hyssopifolia	Hyssop loosestrife	OBL
Malvella leprosa	Alkali mallow	FACU
Matricaria discoidea	Pineapple weed	FACU
Medicago polymorpha	California burclover	FACU
Medicago sativa	Alfalfa	UPL
Melilotus indicus	Sourclover	FACU
Melilotus officinalis	Yellow sweetclover	FACU
Olea europaea	Olive	UPL
Persicaria lapathifolia	Common knotweed	FACW
Phalaris paradoxa	Hood canary grass	FAC
Phoenix canariensis	Canary island date palm	UPL
Physalis philadelphica	Tomatillo	UPL
Pinus sp.	Pine	-
Plantago lanceolata	English plantain	FAC
Platanus racemosa	California sycamore	FAC
Polypogon monspeliensis	Rabbitsfoot grass	FACW
Populus fremontii	Fremont cottonwood	FAC
Quercus lobata	Valley oak	FACU
Quercus wislizeni	Interior live oak	UPL
Ranunculus muricatus	Spiny fruit buttercup	FACW
Robinia pseudoacaria	Black locust	FACU
Rorippa curvisiliqua	Western yellowcress	OBL
Rosa californica	California rose	FAC
Rumex crispus	Curly dock	FAC
Salix exigua	Sandbar willow	FACW
Salix gooddingii	Goodding's black willow	FACW
Salsola tragus	Tumbleweed	FACU
Sambucus nigra subsp. caerulea	Blue elderberry	FACU
Schoenoplectus acutus var. occidentalis	Common tule	OBL

Sherardia arvensis	Field madder	UPL
Silybum marianum	Milk thistle	UPL
Sonchus oleraceus	Common sow thistle	UPL
Sorghum halepense	Johnson grass	FACU
Spergula arvensis	Starwort	UPL
Spergularia media var. media	Greater sea-spurrey	FACW
Stipa pulchra	Purple needle grass	UPL
Tragopogon porrifolius	Salsify	UPL
Triadica sebifera	Chinese tallowtree	FAC
Trifolium depauperatum var. depauperatum	Dwarf sack clover	FAC
Trifolium hirtum	Rose clover	UPL
Trifolium variegatum var. variegatum	Variegated clover	FAC
Triticum aestivum	Common wheat	UPL
Typha latifolia	Broad-leaved cattail	OBL
Veronica anagallis-aquatica	Water speedwell	OBL
Veronica peregrina subsp. xalapensis	Purslane speedwell	FAC
Vicia sativa subsp. sativa	Spring vetch	FACU
Vicia villosa	Winter vetch	UPL
Vitis vinifera	Wine grape	UPL

Representative Site Photographs



Data Point DP-01 – 16 August 2018



Data Point DP-02 – 16 August 2018



8102 tsuguA 71 – E0-90 tnio9 ste0



8102 tsuguA 71 – 40-90 tnio9 sta0



Data point DP-05 – 17 August 2018



Data point DP-06 – 17 August 2018



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8102 tsuguA 12 - 80-90 tniod sta0



Data point DP-09 – 21 August 2018



Data point DP-10 – 21 August 2018



Data point DP-11 – 19 August 2019



Data point DP-12 - 19 August 2019



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Constructed basin, facing southeast – 18 August 2019



Disturbed area, facing northeast – 19 August 2019



Covell Drainage Channel (CDC-1), facing southwest – 17 August 2018



Non-jurisdictional detention basin (NJB-1), facing south – 19 August 2019



Non-jurisdictional drainage ditch (NJDD-2), facing east – 16 August 2018



Non-jurisdictional irrigation ditch (NJID-2), facing west – 16 August 2018



Non-jurisdictional roadside ditch (NJRD-2), facing south – 16 August 2018

GIS Shapefiles and the Aquatic Resources Excel Spreadsheet (on CD)

Attachment F

Access Letter



September 9, 2019

Project Manager Regulatory Division U.S. Army Corps of Engineers 1325 J Street, Room 1350 Sacramento, California 95814-2922

Re: Bretton Woods/West Davis Active Adult

This letter serves as written permission to enter the Bretton Woods/West Davis Active Adult property shown on the attached **Figure 1** when accompanied by Madrone Ecological Consulting, LLC (Madrone) staff and/or representatives of the applicant. When accompanied by Madrone staff, you may dig soil pits by hand and collect plant materials related to the verification of potential Waters of the U.S. on the Bretton Woods/West Davis Active Adult property. If you have any questions, please contact Ben Watson at Madrone (916) 822-3230 or bwatson@madroneeco.com.

Sincerely,

J. David Taormino Manager, Bretton Woods LLC



Source: United States Geologic Survey, 2015. "Merritt, California" 7.5-Minute Topographic Quadrangle Sections 5 and 8, Township 8 North, Range 2 East, MDB&M Longitude -121.775217, Latitude 38.566444





December 11, 2019

Regulatory Division (SPK-2019-00685)

David Taormino Bretton Woods, LLC 260 Russell Blvd, Suite 260 Davis, CA, 95616 <u>assistdt@taormino.org</u>

Dear David Taormino:

We are responding to your September 24, 2019, request for a jurisdictional determination for the Bretton Woods Development, for Study Area 1 and Study Area 2. The approximately 148-acre project site is located north of West Covell Boulevard and west of CA-113, Latitude 38.564886°, Longitude -121.77411°, Davis, Yolo County, California.

Based on available information, we concur with your aquatic resources delineation for the site, as depicted on the enclosed September 3, 2019, *Figure 3, Aquatic Resources Delineation,* drawing prepared by Madrone Ecological Consulting (enclosures 1). Approximately 1.00 acre of aquatic resources are present within the survey area.

Preliminary Jurisdictional Determination:

Based on available information, the approximately 0.57 acre of aquatic resources (drainage ditch (Covell Drainage Channel)) identified in Study Area 1 are potential jurisdictional aquatic resources ("waters of the United States)" regulated under Section 404 of the Clean Water Act. At your request, we have completed a preliminary jurisdictional determination for Study Area 1. Enclosed find a copy of the *Preliminary Jurisdictional Determination Form* (enclosure 2). Please sign and return the completed form to this office, at the address listed below, within 30 days of the date of this letter. If you do not return the signed form within 30 days, we will presume concurrence and finalize the preliminary jurisdictional determination (JD).

You may request an approved JD for Study Area 1 at any time prior to starting work within waters, including after a permit decision is made.

This preliminary jurisdictional determination has been conducted to identify the potential limits of wetlands and other aquatic resources at the project site which may be subject to U.S. Army Corps of Engineers jurisdiction under Section 404 of the Clean

Water Act and/or Sections 9 and 10 of the Rivers and Harbors Act. A *Notification of Appeal Process and Request for Appeal Form* for the preliminary jurisdictional determination is enclosed to notify you of your options with this determination (enclosure 3).

Approved Jurisdictional Determination

Based on available information, we have determined that the 0.03 acre of detention basin, depicted as NJB-1, the 0.06 acre of drainage ditch, depicted as NJDD-1 and NJDD-2, the 0.30 acre of irrigation ditch, depicted as NJID-1 and NJID-2, and the 0.04 acre of roadside ditch, depicted as NJRD-1 and NJRD-2 in Study Area 2 on the above mentioned drawing (Enclosure 1), are excluded by 33 CFR §328.3(b)(3)(i) and (b)(6) of the 2015 Clean Water Rule (80 FR 37105, June 29, 2015) (CWR), as these ditches are intermittent or ephemeral in flow and do not relocate a tributary or drain wetlands, and do not flow directly or indirectly through another water, or into a water identified as (a)(1) under the CWR. Waters excluded from Clean Water Act jurisdiction may be subject to other state, tribal or local regulations. This disclaimer of jurisdiction is only for Section 404 of the Federal Clean Water Act.

We are enclosing a copy of the *Approved Jurisdictional Determination Form* for your site (enclosure 4).

This approved jurisdictional determination is valid for five years from the date of this letter, unless new information warrants revision of the determination before the expiration date. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 Code of Federal Regulations (CFR) Part 331. The preliminary jurisdictional determination has been conducted to identify the potential limits of wetlands and other aquatic resources at the project site which may be subject to U.S. Army Corps of Engineers jurisdiction under Section 404 of the Clean Water Act and/or Section 9 and 10 of the Rivers and Harbors Act.

A Notification of Appeal Process (NAP) and Request for Appeal (RFA) Form for the approved jurisdictional determination is enclosed (enclosure 5). If you request to appeal this determination, you must submit a completed RFA form to the South Pacific Division Office at the following address: Administrative Appeal Review Officer, Army Corps of Engineers, South Pacific Division, CESPD-PDO, 1455 Market Street, 2052B, San Francisco, California 94103-1399, Telephone: 415-503-6574, FAX: 415-503-6646.

In order for an RFA to be accepted by the Corps, we must determine that the form is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that the form was received by the Division Office within 60 days of the date of the NAP. It is not necessary to submit an RFA form to the Division Office unless you object to the determination in this letter.

This approved jurisdictional determination has been conducted to identify the limits of aquatic resources subject to U.S. Army Corps of Engineers jurisdiction under Section

404 of the Clean Water Act and/or Sections 9 and 10 of the Rivers and Harbors Act for the particular site identified in this request.

We recommend that you provide a copy of this letter containing the preliminary and approved jurisdictional determinations to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property. We appreciate feedback, especially about interaction with our staff and our processes.

Please refer to identification number SPK-2019-00685 in any correspondence concerning this project. If you have any questions, please contact Thomas Faughnan by email at <u>thomas.j.faughnan@usace.army.mil</u>, or telephone at (916) 557-6652. For program information or to complete our Customer Survey, visit our website at <u>www.spk.usace.army.mil/Missions/Regulatory.aspx</u>.

Sincerely,

Chandra Jonkins

Chandra Jenkins Senior Project Manager CA Delta Section

Enclosures

cc: (w/o encls)

Mr. Ben Watson, Madrone Ecological Consulting, <u>bwatson@MadroneEco.com</u> Central Valley Regional Water Quality Control Board, <u>centralvalleysacramento@waterboards.ca.gov</u>

U.S. Fish and Wildlife Service, SFWO mail@fws.gov

Mr. Joseph Morgan, U.S. Environmental Protection Agency, Morgan. Joseph@epa.gov

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applica Attn:	ant: Bretton Woods, LLC David Taormino	File No.: SPK-2019-00685	Date: December 11, 2019	
Attached is:		See Section below		
INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A		
	PROFFERED PERMIT (Standard Permit or Letter of permission)		В	
	PERMIT DENIAL		С	
\rightarrow	→ APPROVED JURISDICTIONAL DETERMINATION		D	
	PRELIMINARY JURISDICTIONAL DETERMINATION		E	
SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <i>http://www.usace.army.mil/cecw/pages/reg_materials.aspx</i> or Corps regulations at 33 CFR Part 331.				
A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.				
• ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.				
as	sociated with the permit.			

- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:				
If you have questions regarding this decision and/or the appeal	If you only have questions regarding the appeal process you may			
process you may contact:	also contact:			
Chandra Jenkins	Thomas J. Cavanaugh			
Sr. Regulatory Project Manager	Administrative Appeal Review Officer			
U.S. Army Corps of Engineers	U.S. Army Corps of Engineers			
Phone: (916) 557-6652	South Pacific Division			
Email: chandra.l.jenkins@usace.army.mil	1455 Market Street, 2052B			
	San Francisco, California 94103-1399			
	Phone: 415-503-6574, FAX 415-503-6646)			
	Email: Thomas.J.Cavanaugh@usace.army.mil			
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government				
consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15				
day notice of any site investigation, and will have the opportunity to participate in all site investigations.				
	Date:	Telephone number:		
Cignoture of appallant or agent				
Signature of appellant of agent.				

SPD version revised December17, 2010

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applic	ant: Bretton Woods, LLC	File No + SPK 2010 00685	Data: Decombor 11, 2010
Attn:	David Taormino	File No.: SFR-2019-00085	Date. December 11, 2019
Attached is:		See Section below	
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	PROFFERED PERMIT (Standard Permit or Letter of permission)		В
	PERMIT DENIAL		С
	APPROVED JURISDICTIONAL DETERMINATION		D
\rightarrow	→ PRELIMINARY JURISDICTIONAL DETERMINATION		E

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Chandra Jenkins	Thomas J. Cavanaugh	
Sr. Regulatory Project Manager	Administrative Appeal Review Officer	
U.S. Army Corps of Engineers	U.S. Army Corps of Engineers	
Phone: (916) 557-6652	South Pacific Division	
Email: chandra.l.jenkins@usace.army.mil	1455 Market Street, 2052B	
	San Francisco, California 94103-1399	
	Phone: 415-503-6574, FAX 415-503-6646)	
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Signature of appellant or agent.		

SPD version revised December17, 2010