WETLAND DELINEATION

1910 Gordon Road (APN: 317-023-010)



HUMBOLDT COUNTY

Prepared by:

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1. INTRODUCTION

The purpose of this study was to identify wetlands and non-wetland waters (aquatic features) on a portion of APN: 317-023-010 to establish required setbacks from cannabis cultivation.

2. DEFINITIONS

Waters of the United States

Waters of the United States are regulated by the U.S Army Corps of Engineers (Army Corps) under the Clean Water Act. Waters of the United States include, but are not limited to, territorial seas, waters used for interstate or foreign commerce and their tributaries, and waters adjacent to the aforementioned, including wetlands.

Army Corps jurisdiction in waters such as creeks and rivers includes the area below the ordinary high water mark, which is the line on the bank established by fluctuations of water that leave physical characteristics such as a distinct line on the bank, shelving, destruction of terrestrial vegetation, and presence of debris.

The Army Corps defines wetlands as:

"...areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal conditions do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

Waters of the State

Waters of the state are regulated by the State Water Resources Control Board (State Water Board) under the Porter-Cologne Water Quality Control Act. Waters of the state are defined as:

"....... any surface water or groundwater, including saline waters, within the boundaries of the state."

Waters of the State includes water in both natural and artificial channels.

The Water Boards define an area as wetland as:

"An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation."

Streamside Management Areas

The Humboldt County General Plan (Humboldt County 2019) recognizes Streamside Management Areas (SMAs) along all streams, which are defined as:

"100 feet, measured as the horizontal distance from the top of bank or edge of riparian drip-line whichever is greater on either side of perennial streams."

"50 feet, measured as the horizontal distance from the top of bank or edge of riparian drip-line whichever is greater on either side of intermittent streams."

3. ENVIRONMENTAL SETTING

Location

The parcel is located at 1910 Gordon Road approximately 10.5 miles north of Bridgeville. The property is located on the Showers Mountain USGS quadrangle (Section 21, T3N, R4E).

Soil, Topography, and Hydrology

Two soil types are mapped in the study area: Pasturerock-Coyoterock-Maneze complex and Burgsblock-Coolyork-Tannin complex (USDA, NRCS 2019). These soil types are derived from sandstone, mudstone, sedimentary rock, and schist parent material. The soils have a non-hydric soil rating. A soil map is provided in Appendix A.

The study area is on a relatively flat terrace at approximately 3,750 feet above sea level.

The study area includes a pond in the headwaters of Morgan Creek, a tributary of the Mad River and associated emergent wetlands. The pond and Morgan Creek are shown on the National Wetland Inventory map (U.S. Fish and Wildlife Service 2019) (Appendix B.) The National Wetlands Inventory maps are useful for background information but cannot be used to delineate wetlands.

The field work was conducted after a period of relatively normal rainfall with 69.24 inches of accumulated precipitation since October 1, 2018 in Bridgeville approximately 10 miles south of the study area (Appendix C).

4. METHODS

The study was evaluated for aquatic features based on the criteria in Section 2. Federal, State, and County wetland delineation methods follow the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual Western Mountains, Valleys, and Coast Region (Version 2.0) (U.S. Army Corps of Engineers 2010). A positive wetland determination is made when all three wetland parameters (hydrophytic vegetation, hydric, soil, and wetland hydrology) are present.

Field work was conducted by Kyle Wear, M.A. and Jack Henry, B.S. on May 27, 2019. Mr. Wear is a professional botanist and is trained in wetland delineation by the Wetland Training Institute. Mr. Wear has been conducting wetland delineations for over ten years throughout northern California. Mr. Henry is a wildlife biologist and has also completed the Wetland Training Institute course and has conducted numerous wetland delineations in Humboldt County.

Hydrophytic Vegetation

The presence of hydrophytic vegetation in determined by the wetland indicator status of each plant species present using the *Western Mountains Valleys and Coast 2016 Regional Wetland Plant List* (U.S. Army Corps of Engineers 2016). The indicator status of plants is based on the estimated probability of the species occurring in wetlands. The indicator status categories are:

Obligate Wetland Plants (OBL) Facultative Wetland Plants (FACW) Facultative Plants (FAC) Facultative Upland Plants (FACU) Obligate Upland Plants (UPL)	Almost always occur in wetlands Usually occur in wetlands Equally occur wetlands and non-wetlands Sometimes occur in wetlands Rarely occur in wetlands	>99% frequency 67%-99% 33%-67% 1%-33% <1%
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If more than 50% of the dominant plants across all vegetation strata (i.e. trees, shrubs, herbs) are OBL, FACW, or FAC, the vegetation is considered to be hydrophytic. Dominance of plants within the plots is determined using the "50/20" rule. This method involves estimating absolute cover of each plant in each vegetation stratum. Dominant plants include the plants with the highest cover that collectively, or individually account for 50% of the total vegetation cover. Additional plants are considered dominant if their cover is at least 20%.

Hydric Soil

Indicators of hydric soil include, but are not limited to, a strong hydrogen sulfide (rotten egg) odor, redox concentrations, depleted matrix, and high organic matter content. Soil colors were determined by using a standard Munsell soil color chart (Gretag Macbeth 2000).

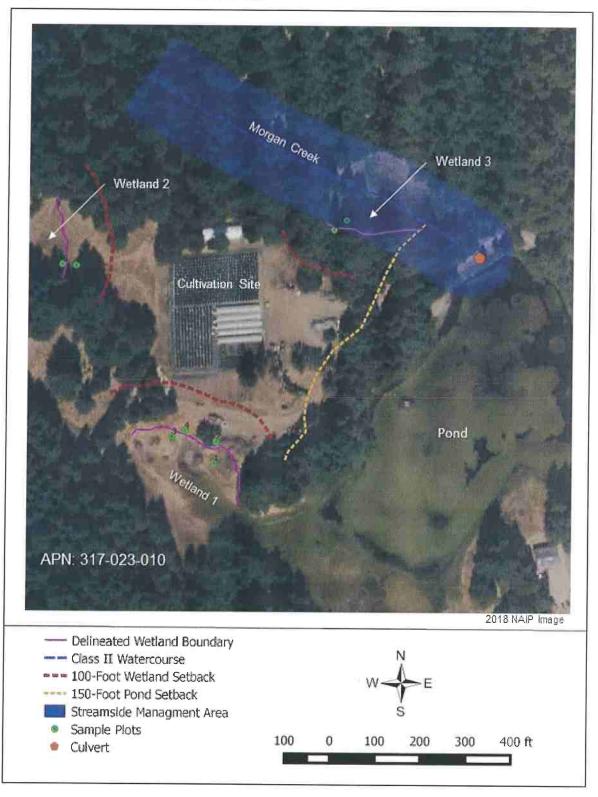
Wetland Hydrology

Indicators of wetland hydrology include, but are not limited to, surface water, high water table, soil saturation, sediment deposits, soil cracks, and oxidized root channels along living roots.

5. RESULTS AND DISCUSSION

Aquatic features adjacent to the cultivation site include three seasonal emergent wetlands, a pond, and Morgan Creek (Figure 1). The setbacks show in Figure 1 are consistent with the State Water Resources Control Board *Cannabis Cultivation Policy* (State Water Resources Control Board 2019) and the County's Streamside Management Area (Humboldt County 2019) or are the more conservative setback. None of the sample plots had indicators of hydric soil. However, the lower (wetter) wetland areas were under water at the time of the field work or on the adjacent property. Thus, the wetland boundaries are relatively conservative and include areas

Figure 1. Wetland Delineation Map.



that do not meet the criteria for hydric soil. A summary of the aquatic features identified is provided in Table 1. Wetland determination data forms are provided in Appendix D.

Table 1. Summary of Aquatic Features in the Study Area.

Feature	Туре	Setback
Wetland 1	Seasonal Emergent Wetland	100 Feet
Wetland 2	Seasonal Emergent Wetland	100 Feet
Wetland 3	Seasonal Emergent Wetland	100 Feet
Pond	Perennial Waterbody	150 Feet
Morgan Creek	Intermittent (Class II)	100 Feet
	watercourse	

Wetland 1 (Sample Plots 1 and 3)

Wetland 1 along the margins of the pond was dominated by Bolander's sedge (*Carex bolanderi*)¹, pennyroyal (*Mentha pelugium*), and curry dock (*Rumex crispus*). The water table was at 6 inches below the surface with saturation at two inches. The soil color was 10yr2/2 and lacked redox features or other indicators of hydric soil. Because of the high water in the adjacent pond, no sample plots were recorded lower down in the wetland, which likely has stronger wetland indicators. Aerial photos indicated much of the area along the southwest margin of the pond is much drier later in the season. The wetland boundary was mapped at the edge of the hydrophytic vegetation associated with the pond and emergent wetland.

Wetland 2 (Sample Plot 5)

Wetland 2 is along the western property line. The sample plot was in a stand of California false hellebore (*Veratrum californicum*) along the margin of an emergent wetland that extended off the property. The soil was 10yr2/1 and lacked redox features. There was soil saturation at approximately 16 inches below the surface. The wetland boundary was marked at the edge of the hydrophytic vegetation (stand of *Veratrum*) associated with the adjacent emergent wetland.

Wetland 3 (Sample Plot 7)

Wetland 3 is along Morgan Creek. The hydrophytic vegetation is dominated by small-flowered bulrush (*Scripus microcarpus*) and Pacific water parsley (*Oenanthe sarmentosa*). The soil was 10yr2/2 and lacked redox features. The water table was at 6 inches below the surface with saturation to the surface. The wetland boundary was mapped at the edge of the hydrophytic vegetation.

Pond and Morgan Creek

The pond and Morgan Creek are non-wetland waters that drain into the Mad River. The pond is a perennial waterbody and Morgan Creek is an intermittent (Class II) watercourse.

¹The Carex was just beginning to bloom and lacked developed perigynia and other diagnostic features in the key. The ID was the best possible based on available morphological features, species range, and habitat.

Upland (Sample Plots 2, 4, 6, & 8)

The upland habitat around the cultivation site includes Douglas-fir forest, non-native grassland, and disturbed habitat dominated by upland plant communities.

Historic Extent of Wetlands

2010 and 2016 Google Earth images were evaluated to determine if there has been any recent changes in the extent of wetland in the study area (Appendix E). There is no evidence in the photos of filling or grading of wetlands. The extent of wetlands prior to developing the area in 2010 is consistent with the 2016 photo and what was mapped in May 2019.

6. REFERENCES

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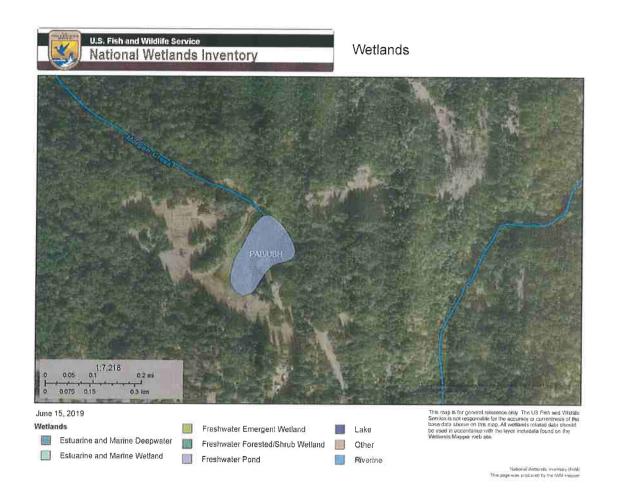
APPENDIX A Soil Map





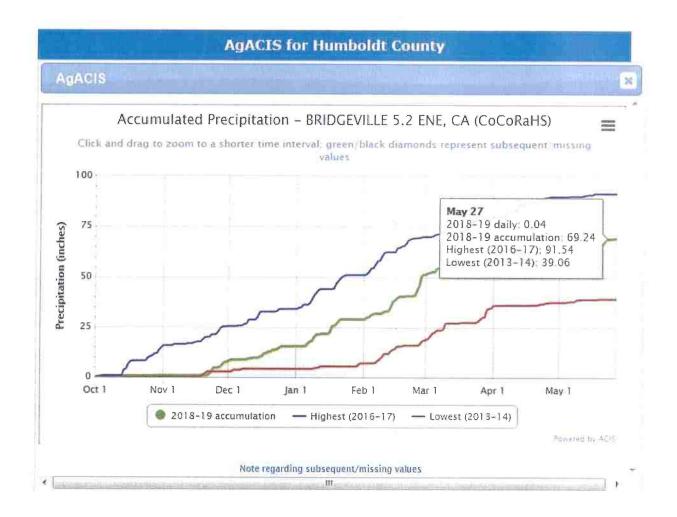


APPENDIX B National Wetlands Inventory Map



Wetland Delineation 1910 Gordon Road (APN: 317-023-010)

APPENDIX C Accumulated Precipitation



Wetland Delineation 1910 Gordon Road (APN: 317-023-010)

APPENDIX D Wetland Determination Data Forms

Wetland Delineation June 2019

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: APN 317-023-010 city/County: Humbold+ Applicant/Owner: State: CA Sampling Point; Henry Section, Township, Range: 21, T3N, R4E Investigator(s): . Wear Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Lat: 40.6232000 Long: 123.74484500 Subregion (LRR): 20-46 tecreek-Maneze NWI classification: Soil Map Unit Name: Pasternok - (No_____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes_ Are Vegetation _____, Soil _____, or Hydrology _____naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? emergent wetland 3- parameter VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species 100 That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species __ x4= = Total Cover Herb Stratum (Plot size: 16 UPL species _____ x 5 = ____ 1. Carex bolanders Column Totals: _____ (A) _____ (B) 2 Julys effusion Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophyu 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ ___ 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) ___ 5 - Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ____= Total Cover Woody Vine Stratum (Plot size:_____) Hydrophytic Vegetation Present? ____ = Total Cover % Bare Ground in Herb Stratum _____ Remarks:

SOIL	Sampling Point:
Profile Description: (Describe to the depth needed to document the indicator or c	onfirm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type Li	oc ² Texture Remarks
0-16 10-12/2 100	
	HITTON (5)-1-1112 - 112
	Secretary and the secretary an
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sa	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLI	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	Other (Explain in Remarks)
Thick Dark Surface (A12) Redox Dark Surface (F6)	Indiantors of hydronhytic vegetation and
Sandy Mucky Mineral (S1) — Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) — Redox Depressions (F8)	wetland hydrology must be present,
Restrictive Layer (if present):	unless disturbed or problematic.
Type:	V
Depth (inches);	Hydric Soil Present? Yes No X
YDROLOGY	
Vetland Hydrology Indicators:	
Vetland Hydrology Indicators:	Secondary Indicators (2 or more required)
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Perlmary indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vater Table Present? Vater Table Present? Ves No Depth (inches): Jurface Water Present? Ves No Depth (inches): Jurface Vater Present? Ves Ves No Depth (inches): Jurface Vater Present? Ves Ves No Depth (inches): Jurface Vater Present? Ves Ves Ves No Depth (inches): Jurface Vater Present Present Present Present Present Prese	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) g Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Is (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Urface Water Present? Ves No Depth (inches): Jurface Vater Table Present? Ves No Depth (inches): Jurface Vater Present Vater Pr	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) g Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Is (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No Dons), if available:
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) ield Observations: water Table Present? Ves No Depth (inches): Jurface Water Present? Ves No Depth (inches): Jurface Vater Present? Ves Ves No Depth (inches): Jurface Vater Present? Ves Ves No Depth (inches): Jurface Vater Present? Ves No Depth (inches): Jurface Vater Present? Ves Ves Ves No Depth (inches): Ves Ves Ves No Depth	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) g Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Is (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No Dons), if available:
Perlmary indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vater Table Present? Vater Table Present Vater V	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) g Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Is (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No Dons), if available:
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (excep MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Water Table Present? Yes No Depth (inches): Jater Table Present? Yes Jater Table Present? Yes No Depth (inches): Jater Table Present? Yes Jater Table Present? Yes No Depth (inches): Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes Jater Table Present? Yes No Depth (inches): Jater Table Present? Yes Jater Table	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) g Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Is (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No Dons), if available:
Vetland Hydrology Indicators: Irimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Urface Water Present? Yes No Depth (inches): Jurface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspectic	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Is (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No Dons), if available:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region _ Sampling Date: 5-27-19 Sommers Applicant/Owner: Sampling Point: Investigator(s): K. Wear + J. Henry Section, Township, Range. Z1, T3N, Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none):_____ Lat: 40.62330500 Long: -123.74479600 Subregion (LRR): ____ Soil Map Unit Name: Pasterrack - Coyotecreek - Muneze NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _______ No ______ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes No Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 201 - radius % Cover Species? Status Number of Dominant Species 1. Pseud Lsuga menziesii That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: 1. Berberis au Molium Total % Cover of: Multiply by: Symphorio Carpos OBL species ____ x 1 = FACW species x 2 = FAC species x3= FACU species _ = Total Cover Herb Stratum (Plot size: UPL species x 5 = Cynoglossm grand UPL Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: r, tillaria 1 - Rapid Test for Hydrophytic Vegetation FITEU 2 - Dominance Test is >50% omus diandres UPL __ 3 - Prevalence Index is ≤3.01 Coalism aparine FACU 4 - Morphological Adaptations (Provide supporting FAC Rumer acetosella data in Remarks or on a separate sheet) Stellaria media Z FACU 5 - Wetland Non-Vascular Plants 10. Other non-flowering arasses Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must 70 = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? = Total Cover % Bare Ground in Herb Stratum Remarks:

SOIL		Sampling Point:
Profile Description: (Describe to the d	epth needed to document the indicator or confir	
Depth Matrix	Redox Features	in the aboutoe of manuacoron
(inches) Color (moist) %	Color (moist) % Type Loc2	
0-16 10yr 3/2 100	×	_cl

Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining, M≈Matrix.
Hydric Soil Indicators: (Applicable to a	II LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	2
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present,
Restrictive Layer (if present):	Redox Depressions (F8)	unless disturbed or problematic.
Type:	*	
Depth (inches):		Lu. /
Remarks:		Hydric Soil Present? Yes No
IYDROLOGY Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	od shock all that analy	G
Surface Water (A1)	and the second s	Secondary Indicators (2 or more required
	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1
High Water Table (A2) Saturation (A3)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Water Marks (B1)	Salt Crust (B11) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roo	Saturation Visible on Aerial Imagery (
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	
Inundation Visible on Aerial Imagery (E		Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface		Trost-ricave (turninocka (b))
field Observations:	(10)	
Surface Water Present? Yes	No Depth (inches):	
Vater Table Present? Yes	No Depth (inches):	
	4	nd Hudrology Decasto Van
includes capillary fringe)		nd Hydrology Present? Yes No _/
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections), i	f available:
Remarks:		

WEILAND DETERMINATION DATA FORM - Western Mo	
Project/Site: APN: 317-023-010 City/County: Hum Applicant/Owner: Sommers	rbold Sampling Date: 5-27-
Applicant/Owner: Sommers	State: CA Sampling Point 3
Investigator(s): K. Wear & J. Henry Section, Township, R.	ange: 21 +3N. RYE
Landform (hillslope, terrace, etc.): Local relief (concave.	convex, none): Slape (%): 170
Subregion (LRR):	Long: -123,74518000 Datum: NAD 8
Soil Map Unit Name: Pasturervek - Coyotecreek, -Mane	Ze NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	
	"Normal Circumstances" present? Yes X No
	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	(2)
Hydric Soil Present? Yes No X Is the Sample:	d Area
	nd? Yes No
Remarks: Plot is at edge of flooder are 3-parameter wetland	a that is likely
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Number of Dominant Species
	That Are OBL, FACW, or FAC:(A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
= Total 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 x 1 =
3	FACW species x 2 =
4	FAC species x 3 =
0	FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1 Runex crispus ZO Y FAC	Column Totals: (A) (B)
2 menthy puleyium 30 WBY OBL	Prevalence index = B/A =
3. Carex bolander 5 N FAC	Hydrophytic Vegetation Indicators:
4. Non- flowering grasses 40 N ?	1 - Rapid Test for Hydrophytic Vegetation
5	2 - Dominance Test is >50%
6	3 - Prevalence Index is ≤3.0
7	4 - Morphological Adaptations (Provide supporting
8	data in Remarks or on a separate sheet)
9	5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain)
10	¹Indicators of hydric soil and wetland hydrology must
= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	
1	Hydrophytic
2	Vegetation Present? Yes \(\setminus No \)
% Bare Ground in Herb Stratum= Total Cover	Tresenti 169 NO
	21 101
Remarks: 2 overall band of vegetation above	flooded area

~	-	

Frome Description. (Desc	TIDE CO THE G	epth needed to document the indicator or confin	in the abounds of marcators,
Depth Mat	rix	Redox Features	
(inches) Color (mois	(t) %	Color (moist) % Type Loc2	<u>Texture</u> Remarks
10-16 104121	2 100)	
		· · · · · · · · · · · · · · · · · · ·	
Type: C=Concentration D=	Depletion RI	M=Reduced Matrix, CS=Covered or Coated Sand G	irains. ² Location: PL=Pore Lining, M=Matrix.
		Il LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	,	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except MLRA 1)	
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Su	ırface (A11)	Depleted Matrix (F3)	- (ZAPISII III (ZAPISII III)
Thick Dark Surface (A12	2)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S	1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S		Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if preser	it):		
Type:			2
Depth (inches):			Hydric Soil Present? Yes No_X
Remarks:			
HYDROLOGY			
	nee'		
Wetland Hydrology Indicate			
Wetland Hydrology Indicate Primary Indicators (minimum			Secondary Indicators (2 or more required)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)			
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6)	of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer	of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond	of one require ial Imagery (E cave Surface	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present?	of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present?	of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present?	of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Cond Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	of one required in the imagery (Exave Surface of Yes Yes Yes X	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

			intains, Valleys, and Coast Region
Project/Site: APN: 317-023-01	O Gity/Cou	inty: Hun	rboldt Sampling Date: 5-27-19
Applicant/Owner: Sommers			State: CA Sampling Point: 4
Investigator(s): K. Wear + J. Hen			
Landform (hillslope, terrace, etc.): + crrice	,		
Subregion (LRR):	_ Lat: 40.623	>39000	Long: -123.74508400 Datum: NAO 8
Soil Map Unit Name: Pasture Vack - Coyoka	reek - Ma	nere	NVVI classification:
Are climatic / hydrologic conditions on the site typical for th		76	
Are Vegetation, or Hydrology	significantly disturbed	d? Are	"Normal Circumstances" present? Yes 🗡 No
Are Vegetation, Soil, or Hydrology	naturally problematic	? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampl	ing point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No_*		
Hydric Soil Present? YesN		the Sampled	Area
Wetland Hydrology Present? Yes N	10 X	ithin a Wetlar	nd? Yes NoX
Remarks:			
VEOTE TION	<u> </u>		
VEGETATION – Use scientific names of plan			
Tree Stratum (Plot size:)	Absolute Domina % Cover Species	int Indicator	Dominance Test worksheet:
1	70 COVEL Species	or orarus	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			A STATE OF THE STA
3			Total Number of Dominant Species Across All Strata: (B)
4		_	
	= Total (Cover	Percent of Dominant Species 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 x 1 =
3			FACW species x 2 =
4			FAC species x 3 =
6	= Total 0	Cover	FACU species x 4 =
Herb Stratum (Plot size:	- Total C	50061	UPL species x 5 =
1. Isronus Nordeaclas	20 Y	FACU	Column Totals: (A) (B)
2. Rumer acetosella	<u> 20 Y</u>	- FAC	Prevalence Index = B/A =
3. Cynsourus echinatus	10 4	UPL	Hydrophytic Vegetation Indicators:
4. Póq trivializ	10 4	FAC	1 - Rapid Test for Hydrophytic Vegetation
5. Ductyles alomerata 6. Hochaerts radicata	5 FACY		2 - Dominance Test is >50%
7. Fracium totry	3 10	FULCE	3 - Prevalence Index is ≤3.0¹
8. Anthoxanthun oderatum	5 N	FAEU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9. Pteridien advisioning	3 N	FACU	5 - Wetland Non-Vascular Plants ¹
10. Taraxacum officinale	3 7	FACU	Problematic Hydrophytic Vegetation [†] (Explain)
11. Cerastius glomery-un	9 1	FACU	Indicators of hydric soil and wetland hydrology must
The state of the s	= Total C		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	1000	Over	
1			Hydrophytic
2			Vegetation Present? Yes No
% Bare Ground in Herb Stratum	= Total Co	over	1.020HF: 162 140 1
Remarks:		1	
O overall veg above we	et area		-

SOIL		Sampling Po	int: 4
Profile Description: (Describe to the	depth needed to document the indicator or confin		
Depth Matrix	Redox Features	the absence of materiols.	
(inches) Color (moist) %		TextureRemark	(8
0-12 10-13/2 10	^		-
101/10			
		The state of the s	
Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining	. M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hy	
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)		(TE12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)	
Depleted Below Dark Surface (A11)		Chie. (Explain in Normalico)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic veget	ation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be p	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problema	
Restrictive Layer (if present):		The state of the s	
Type:			1
Depth (inches):			
Remarks:		Hydric Soil Present? Yes	_ Noj
YDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one requ	ired; check all that anniv)	Secondary Indicators /2 or m	oro rogurad)
		Secondary Indicators (2 or me	
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B	9) (MLRA 1, 2,
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)	
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table	(C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aeri	ial Imagery (C9
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roo	ts (C3) Geomorphic Position (D2	2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6		
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)		(I PR A)
Inundation Visible on Aerial Imagery		Frost-Heave Hummocks	
Sparsely Vegetated Concave Surface	,	- Tost Hodge Hallimooks	(27)
field Observations:	(50)		
	🛪		
Surface Water Present? Yes	No Depth (inches):		1
Vater Table Present? Yes	No Depth (inches):		~/
Saturation Present? Yes includes capillary fringe)	1	and Hydrology Present? Yes	_ No
Pescribe Recorded Data (stream gauge,	monitoring well, aerial photos, previous inspections), i	available:	
Remarks:	The state of the s		

WEILAND DETERMINATION DATA FOR	kıvı – Western Mou	intains, valleys, and Coast Region
Project/Site: APW: 317-023-010	City/County: Hum	Cold - Sampling Date: 5-27-19
Applicant/Owner: Summers		
Investigator(s): K. Wear + J. Henry	Section, Township, Ra	ange: Zr, 730, 1245
		convex, none): 17 one Slope (%): 17
Subregion (LRR): 14 Lat: 4	0.62939500	Long: -123.79689500 Datum: NAD 8
Soil Map Unit Name: Pasterock - Coydecreek.	Manere	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🏒 No_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Y No		
Hydric Soil Present? Yes No X	is the Sampled	nd? Yes No_X
Wetland Hydrology Present? Yes No X		
the property.	ent wetten	d flut extends off
VEGETATION – Use scientific names of plants. Absolute	Damin I I I'm	T Davidson - Tast washabasti
and a little and the later of t	Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3		Total Number of Dominant
4		Species Across All Strata: (B)
	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)		Prevalence Index worksheet:
2		Total % Cover of:Multiply by:
3		OBL species x 1 =
4		FACW species x 2 =
5.		FAC species x 3 =
	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 16 radios	V CA	UPL species x 5 =
1. Veration californiam 100		Column Totals: (A) (B)
2		Prevalence Index = B/A =
3		Hydrophytic Vegetation Indicators:
4		1 - Rapid Test for Hydrophytic Vegetation
6		2 - Dominance Test is >50%
7		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
8		data in Remarks or on a separate sheet)
9.		5 - Wetland Non-Vascular Plants
10		Problematic Hydrophytic Vegetation ¹ (Explain)
11		Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	_= Total Cover	be present, unless disturbed or problematic.
1		Hydrophytic
2.		Vegetation Present? Yes V
% Bare Ground in Herb Stratum	= Total Cover	-
Remarks: 1 ower (wetter) portion of	- wethand	off property Mas
Remarks: Lower Cwetter) portion of	e) I rs	hes (Junus)

		_
Sampling	Point:	

Depth Matrix	Redox Features	ator or confirm	,
(inches) Color (moist)	% Color (moist) % Ty	pe' Loc²	Texture Remarks
1157701 05-0	100		
			
			
	on, RM=Reduced Matrix, CS=Covered or C	oated Sand Grain	
	e to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ¹ :
_ Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A10)
_ Histic Epipedon (A2) _ Black Histic (A3)	Stripped Matrix (S6)		Red Parent Material (TF2)
_ Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (ex Loamy Gleyed Matrix (F2)	cept MLRA 1)	Very Shallow Dark Surface (TF12)
_ Depleted Below Dark Surface (A			Other (Explain in Remarks)
_ Thick Dark Surface (A12)	Redox Dark Surface (F6)		Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hydrology must be present.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbed or problematic
estrictive Layer (if present):			
Type:			
Depth (inches):			Hydric Soil Present? Yes No X
emarks:			
/DROLOGY /etland Hydrology Indicators:			
Tourna Hydrology mulcators.			
	required; check all that apply)		Secondary Indicators (2 or more required)
	required; check all that apply) Water-Stained Leaves (B9	except	
imary Indicators (minimum of one r			
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9		Water-Stained Leaves (B9) (MLRA 1, 2
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E	3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11)	3)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9MLRA 1, 2, 4A, and 4ESalt Crust (B11)Aquatic Invertebrates (B13)	3) 3) 1)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (Cooxidized Rhizospheres alooxidized Reduced Iron	3) 1) ong Living Roots (C4)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (Cooxidized Rhizospheres ald	3) 1) ong Living Roots (C4)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 (C3) Geomorphic Position (D2)
imary Indicators (minimum of one r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in 1 Stunted or Stressed Plants	B) 1) ong Living Roots (C4) Filled Soils (C6) s (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
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Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imag	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres aid Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants ery (B7) Water-Stained Leaves (B9) Advanced Figure 1 Market Figure 1 Stained Cexplain in Remarks	B) 1) ong Living Roots (C4) Filled Soils (C6) s (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imag	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C Oxidized Rhizospheres aid Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants ery (B7) Water-Stained Leaves (B9) Advanced Figure 1 Market Figure 1 Stained Cexplain in Remarks	B) 1) ong Living Roots (C4) Filled Soils (C6) s (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Sureld Observations:	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants erry (B7) Other (Explain in Remarks fface (B8)	B) 1) ong Living Roots (C4) Filled Soils (C6) s (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Surface Water Present? Yes	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants erry (B7) Other (Explain in Remarks fface (B8)	B) 1) ong Living Roots (C4) Filled Soils (C6) s (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Surface Water Present? Algal Mater Present? Algal Mater Crust (B6) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Surface Water Present? Algal Mater	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C- Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants of ther (Explain in Remarks rface (B8) No Depth (inches): Depth (inches): Depth (inches):	B) 3) 1) 2) 2) 2) 3) 2) 3) 4) 5) 6 7) 6 7) 7) 7) 8 7) 8 7) 8 7) 8 7) 8	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imag Sparsely Vegetated Concave Sureld Observations: urface Water Present? Ves_ Saturation Present? Yes_ Saturation Present?	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C- Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants of ther (Explain in Remarks rface (B8) No Depth (inches): Depth (inches): Depth (inches):	B) 3) 1) 2) 2) 2) 3) 2) 3) 4) 5) 6 7) 6 7) 7) 7) 8 7) 8 7) 8 7) 8 7) 8	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Imary Indicators (minimum of one results) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface Water Present? Ves_ Surface Water Present? Yes_ Surface Water Present	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C- Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants of ther (Explain in Remarks rface (B8) No Depth (inches): Depth (inches): Depth (inches):	B) 3) 1) 2) 2) 2) 3) 2) 3) 4) 5) 6 7) 6 7) 7) 7) 8 7) 8 7) 8 7) 8 7) 8	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Imary Indicators (minimum of one results) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface Water Present? Ves_ Surface Water Present? Yes_ Surface Water Present	Water-Stained Leaves (B9 MLRA 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C- Oxidized Rhizospheres ald Presence of Reduced Iron Recent Iron Reduction in T Stunted or Stressed Plants of ther (Explain in Remarks rface (B8) No Depth (inches): Depth (inches): Depth (inches):	B) 3) 1) 2) 2) 2) 3) 2) 3) 4) 5) 6 7) 6 7) 7) 7) 8 7) 8 7) 8 7) 8 7) 8	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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WETENING DETERMINATION		western wo	untains, valleys, a	nd Coast Region	t.
Project/Site: APW - 312-023-	OID City/	County: 1+2	nkoldh	Sampling Date:	5-27-
Applicant/Owner: SUMMES			State: CA	Sampling Point	-
Investigator(s): K. Weir & S. W	ery Sect	tion, Township, R	ange: 21, T3	w. RyE	
Landform (hillslope, terrace, etc.): Terrae			convex, none): 10 0		(0/4)
Subregion (LRR):		2438900	Long: -123.74	599100 Datum	: (70).
Soil Map Unit Name: Pasturerack - Coyo	Jecrek -1	Maneze	NIMI class	fication:	
Are climatic / hydrologic conditions on the site typical fo	r this time of year?	Yes & No	(If no, explain in	Remarks)	
Are Vegetation, Soil, or Hydrology				1	No
Are Vegetation, Soil, or Hydrology			eeded, explain any ansy		140
SUMMARY OF FINDINGS - Attach site ma					tures, etc.
Hydrophytic Vegetation Present? Yes					
Hydric Soil Present? Yes		Is the Sample		+	
Wetland Hydrology Present? Yes	No 💃	within a Wetla	nd? Yes	No	
Remarks:	\$				1
VEGETATION – Use scientific names of p	lants.				
Tree Stratum (Plot size:)		minant Indicator	Dominance Test wo	rksheet:	
1	% Cover Spe	cies? Status	Number of Dominant	Species Z	
2.			That Are OBL, FACW	, or FAU:	(A)
3.			Total Number of Dom		im
4			Species Across All St		(B)
	= To		Percent of Dominant : That Are OBL, FACW		Ze (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index wo		and (roca)
1				Muitiply b	v:
2,				x1=	
3				x 2 =	
5				x 3 =	
11/1 1 2	= To	tal Cover	FACU species	x 4 =	
Herb Stratum (Plot size: 16' - VOU S		I Cover		x 5 =	
+ Holas landos	_ 20 Y	PAC	Column Totals:	(A)	(B)
2. Hehillen milletoliata	<u> 70 y</u>	FAUJ	Prevalence Inde	x = B/A =	
3. Runey acetosella	_ <u>70</u> _ Y	FAC	Hydrophytic Vegetat		
4. Pactylis glomerata	_ <u>70 Y</u>	FAC	1 - Rapid Test for	Hydrophytic Vegetatio	in
5. Lepoin campestre	N	UPL	2 - Dominance Te	st is >50%	
6. Werrophia menzies,1 7. Calochortus tolmei		1 010	3 - Prevalence Inc		
	n	J UPL	4 - Morphological	Adaptations ¹ (Provide (S or on a separate she	supporting
8			5 - Wetland Non-\		361)
9			9 - Wetland (Von-V		volaio)
11			¹ Indicators of hydric so		
		al Cover	be present, unless dist		gy must
Woody Vine Stratum (Plot size:)					
1			Hydrophytic		
2			Vegetation	s No C	l l
% Bare Ground in Herb Stratum	= Tota	ol Cover	riesein/ 16	NO 1	-
Remarks:					
7					-
					- 1

Sampling Point:

Profile Description: (Describe to the dept	n needed to document the indicator or con-	firm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10/rd)		
Type: C=Concentration D=Depletion DM=	Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L	RRs. unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	_ Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	_ Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		X
Depth (inches):		Hydric Soil Present? Yes No
Remarks		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required:	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living R	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8		
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	77	
Saturation Present? Yes No		etland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspections	s), if available:
Remarks:	The state of the s	

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: APN: 317-023-610 City/County: Hunbold + Sampling Date: 5-27-19 State: A Sampling Point: Applicant/Owner: ____ 5. Henry Section, Township, Range: 21, T3N RYE Investigator(s): Wer + Landform (hillslope, terrace, etc.): 1+115 ope Local relief (concave, convex, none): None Slope (%): 15 Lat: 40.62470200 Long: -123.74384100 Datum: NAD83 Subregion (LRR): polyont - tannin NWI classification: Soil Map Unit Name: Burgs Hock Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🖈 No (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No _ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species _____= Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: ____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) 2. Denathe sarmen Prevalence Index = B/A = 3 MiMJUS moschalos GRU Hydrophytic Vegetation Indicators: 4. Oteridin agiilmin FACU _____1 - Rapid Test for Hydrophytic Vegetation № 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation (Explain) indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ____ = Total Cover Woody Vine Stratum (Plot size: _____) Hydrophytic Vegetation Present? ____= Total Cover % Bare Ground in Herb Stratum Remarks:

Sampling Point: 7

Depth	ription: (Describe Matrix		Redox Features				
(inches)	Color (moist)	%C	olor (moist) % Type	e¹ Loc²	Texture	Remarks	
0-12	107r2/2	·					
		1					
				4			
Type: C=Co	ncentration, D=Dep	letion, RM=Redu	ced Matrix, CS=Covered or Co	ated Sand Grain	is. ² Location:	PL=Pore Lining, M	=Matrix.
lydric Soil I	ndicators: (Applic	able to all LRRs	, unless otherwise noted.)			Problematic Hydri	
_ Histosol ((A1)	S	andy Redox (S5)		2 cm Muck	(A10)	
_ Histic Ep	ipedon (A2)	_ s	tripped Matrix (S6)			t Material (TF2)	
_ Black His	stic (A3)	L	oamy Mucky Mineral (F1) (exc	ept MLRA 1)		ow Dark Surface (Ti	F12)
	Sulfide (A4)		oamy Gleyed Matrix (F2)			lain in Remarks)	
	Below Dark Surface		epleted Matrix (F3)				
	rk Surface (A12)		ledox Dark Surface (F6)			ydrophytic vegetatio	
	ucky Mineral (S1)		epleted Dark Surface (F7)			rology must be pres	
	eyed Matrix (S4)	R	edox Depressions (F8)		unless distu	rbed or problematic	
	ayer (if present):						
Type:				1			1
Depth (incl	hes):				lydric Soll Prese	nt? Yes	No Z
emarks.							
emarks:							
Pemarks: YDROLOC Vetland Hyd	GY rology Indicators:		k all that apply)		Secondary Ir	ndicators (2 or more	required)
PROLOC Vetland Hydirimary Indica	GY rology Indicators: ators (minimum of o					ndicators (2 or more	
PROLOC Petland Hydrimary Indicator	GY rology Indicators: ators (minimum of o Vater (A1)		Water-Stained Leaves (B9)	(except	Water-S	tained Leaves (B9)	
PROLOC Vetland Hydical Firmary Indical Surface V	GY rology Indicators: ators (minimum of or Vater (A1) er Table (A2)		Water-Stained Leaves (B9)	(except	Water-Si 4A, a	tained Leaves (B9)	
PROLOC Vetland Hyding Firmary Indicase Surface V High Wate Saturation	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3)		Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B Salt Crust (B11)	(except	Water-Si 4A, a Drainage	tained Leaves (B9) nd 4B) e Patterns (B10)	(MLRA 1, 2,
PROLOC Petland Hydica Surface V High Wate Saturation Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) irks (B1)		Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrates (B13)	(except	Water-Si 4A, a Drainage Dry-Seas	tained Leaves (B9) nd 4B) Patterns (B10) son Water Table (C	(MLRA 1, 2,
PROLOC Petland Hydrimary Indica Surface V High Water Saturation Water Ma Sediment	rology Indicators: ators (minimum of on Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2)		Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1	(except	Water-Si 4A, a Drainage Dry-Seas Saturatio	tained Leaves (B9) nd 4B) Patterns (B10) Son Water Table (Con Visible on Aerial	(MLRA 1, 2,
/DROLOC /etland Hyd rimary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) in (A3) urks (B1) Deposits (B2) usits (B3)		Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B, Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor	(except))) ng Living Roots	Water-Si 4A, a	tained Leaves (B9) nd 4B) Patterns (B10) Son Water Table (Con Visible on Aerial ohic Position (D2)	(MLRA 1, 2,
/DROLOC /etland Hyd rimary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) in (A3) in (A3) Deposits (B2) osits (B3) or Crust (B4)		Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B, Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor Presence of Reduced Iron ((except))) ng Living Roots (C4)	Water-Si 4A, a A, a Drainage Dry-Sea: Saturatic C3) Geomore Shallow	tained Leaves (B9) nd 4B) Patterns (B10) Son Water Table (Con Visible on Aerial ohic Position (D2) Aquitard (D3)	(MLRA 1, 2,
/DROLOC /etland Hyd rimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) nrks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5)		Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Ti	(except)) ng Living Roots (C4) lled Soils (C6)	Water-Si 4A, a An a Drainage Dry-Seas Saturatic C3) Geomory Shallow FAC-Net	tained Leaves (B9) nd 4B) Patterns (B10) Son Water Table (Con Visible on Aerial Cohic Position (D2) Aquitard (D3) Litral Test (D5)	(MLRA 1, 2, 2) imagery (C9)
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/DROLOC /etland Hyd rimary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely vield Observa	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) er (A3) er (A3) er (B1) Deposits (B2) er (B4) er (B4) er (B5) er (B6) er Visible on Aerial Invegetated Concave ations:	ne required; chec	Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B, Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Ti Stunted or Stressed Plants Other (Explain in Remarks) Depth (inches): Depth (inches):	(except) ng Living Roots (C4) lled Soils (C6) (D1) (LRR A)	Water-Si 4A, a	tained Leaves (B9) nd 4B) Parterns (B10) Son Water Table (Con Visible on Aerial ohic Position (D2) Aquitard (D3) Litral Test (D5) Ant Mounds (D6) (L1 Lave Hummocks (D7)	(MLRA 1, 2, 2) imagery (C9)
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VDROLOC Vetland Hyd rimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely V ield Observator Vater Table P aturation Pre coludes capit	rology Indicators: ators (minimum of or vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) asits (B3) or Crust (B4) asits (B5) a Visible on Aerial Ir Vegetated Concave ations: Present? Assent? Assent.	nagery (B7) Surface (B8)	Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B, Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Ti Stunted or Stressed Plants Other (Explain in Remarks) Depth (inches): Depth (inches):	(except) ing Living Roots (C4) lled Soils (C6) (D1) (LRR A)	Water-Si 4A, a	tained Leaves (B9) nd 4B) Partterns (B10) Son Water Table (Con Visible on Aerial ohic Position (D2) Aquitard (D3) Litral Test (D5) Ant Mounds (D6) (L1 Lave Hummocks (D7)	(MLRA 1, 2, 2) imagery (C9)
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YDROLOC Vetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely V ield Observa urface Water Vater Table P aturation Pre ncludes capit	rology Indicators: ators (minimum of or vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) asits (B3) or Crust (B4) asits (B5) a Visible on Aerial Ir Vegetated Concave ations: Present? Assent? Assent.	nagery (B7) Surface (B8)	Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Ti Stunted or Stressed Plants Other (Explain in Remarks) Depth (inches): Depth (inches):	(except) ing Living Roots (C4) lled Soils (C6) (D1) (LRR A)	Water-Si 4A, a	tained Leaves (B9) nd 4B) Partterns (B10) Son Water Table (Con Visible on Aerial ohic Position (D2) Aquitard (D3) Litral Test (D5) Ant Mounds (D6) (L1 Lave Hummocks (D7)	(MLRA 1, 2, 2) imagery (C9)
VDROLOC Vetland Hyd rimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely Viteld Observator Vater Table Periodudes capite	rology Indicators: ators (minimum of or vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) asits (B3) or Crust (B4) asits (B5) a Visible on Aerial Ir Vegetated Concave ations: Present? Assent? Assent.	nagery (B7) Surface (B8)	Water-Stained Leaves (B9) MLRA 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Ti Stunted or Stressed Plants Other (Explain in Remarks) Depth (inches): Depth (inches):	(except) ing Living Roots (C4) lled Soils (C6) (D1) (LRR A)	Water-Si 4A, a	tained Leaves (B9) nd 4B) Partterns (B10) Son Water Table (Con Visible on Aerial ohic Position (D2) Aquitard (D3) Litral Test (D5) Ant Mounds (D6) (L1 Lave Hummocks (D7)	(MLRA 1, 2, 2) imagery (C9)
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WEILAND DETERMINATION	DATA FORM -	Western Mot	intains, Valleys, and Coast Region
Project/Site: APN: 317-623-011	3 City/	County HJW	bold Sampling Date: 5-27-19
Applicant/Owner: Sommers			State: CA Sampling Point 8
Investigator(s): K- Wear + 5. Her	NY Sect	tion, Township, Ra	ange: 21 18 T3W 124E
Landform (hillslope, terrace, etc.): 15115 ap-			convex, none): Nove Slope (%): 15
Subregion (LRR):	Lat: 40-6	52465000	Long: -123.74394600 Datum: NAD 8
Soil Map Unit Name: Burysblack - Cool	york - Ta	nnin	NWI classification:
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology	_significantly distu	irbed? Are	"Normal Circumstances" present? YesX No
Are Vegetation, Soil, or Hydrology	naturally problem		eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing sar	mpling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No_X		
Hydric Soil Present? Yes		Is the Sampled	4
Wetland Hydrology Present? Yes	No	within a Wetla	nur resNo
Remarks:	,		
VECETATION los scientific names of al	anta		
VEGETATION – Use scientific names of pl		-1	
Tree Stratum (Plot size: 30 - radus		minant Indicator ecies? Status	Dominance Test worksheet: Number of Dominant Species
1. Pseudotsiga menziesii		1 FACU	That Are OBL, FACW, or FAC:(A)
2			Total Number of Dominant
3,			Species Across All Strata:(B)
4	- - / x -		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	_(00 = To	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: Zolo (A/B)
1. Symphoricarpos	10	r FACU	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FACUlturation x 3 =
Herb Stratum (Plot size: 10 - rad US	= To	otal Cover	FACU species
1. V. ola Glatella	10 Y	FACW	Column Totals: (A) (B)
2. Pteridky agrilinus	- 	FACU	
3. Osmorhiza Bertero,	- 	FAW	Prevalence Index = B/A =
4. Fragaria Yesler	2	FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
5.			2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.0¹
7			4 - Morphological Adaptations (Provide supporting
B			data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation (Explain)
11	-7-	al Cavas	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	= 101	al Cover	
1			Hydrophytic
2.			Vegetation
% Baro Ground in Horb Stratum	= Tot	al Cover	Present? Yes No
% Bare Ground in Herb Stratum Remarks:			

confirm the absence of indicators.) Loc
Control (principle)
Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Indicators for Problematic Hydric Soils ³ :
2 cm Muck (A10)
Red Parent Material (TF2)
LRA 1) Very Shallow Dark Surface (TF12)
Other (Explain in Remarks)
No attended to the state of the
Indicators of hydrophytic vegetation and wetland hydrology must be present,
unless disturbed or problematic.
arrioda diatarbad di problematic
504
Hydric Soil Present? Yes No
Tryano con recont. Tes no
Secondary Indicators (2 or more required)
pt Water-Stained Leaves (B9) (MLRA 1, 2
4A, and 4B)
Drainage Patterns (B10)
Dry-Season Water Table (C2)
Saturation Visible on Aerial Imagery (CS
ng Roots (C3) Geomorphic Position (D2)
Shallow Aquitard (D3)
ils (C6) FAC-Neutral Test (D5)
.RR A) Raised Ant Mounds (D6) (LRR A)
— Frost-Heave Hummocks (D7)
J
Wetland Hydrology Present? Yes No
ons), if available:



