



Wetland Assessment

Humboldt Heritage Farm (APN: 216-281-015)

Prepared by:

Kyle Wear
Botanical Consultant
wearkyle@gmail.com
(707) 601-1725

Prepared for:

Humboldt Heritage Farm Management, LLC
845 Steelhead Road
Alderpoint, CA 95511

Date:

October 2022

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1. INTRODUCTION

This assessment was conducted to identify any wetlands that could constrain the proposed expansion of commercial cannabis cultivation at Humboldt Heritage Farm (APN: 216-281-015) in Alderpoint (Appendix A).

2. DEFINITIONS

2.1. 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.”

This definition requires that an area have indicators of all three wetlands parameters (hydrophytic vegetation, hydric soil, and wetland hydrology) to be considered wetland.

2.2. Waters of the State

Waters of the state are regulated by the State Water Resources Control Board (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 Board's definition of a wetland is:

“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."

This definition also requires that an area have all three parameters to be considered wetland.

3. ENVIRONMENTAL SETTING

3.1. Project Location

The parcel is located at 845 Steelhead Road in Alderpoint on the Alderpoint USGS quadrangle in Humboldt County (Figure 1).

3.2. Soil, Topography, and Hydrology

The soil in the project area is mapped as Parkland, dry-Garberville, dry complex, which is composed of alluvium from sediment rock (United States Department of Agriculture, Natural Resource Conservation Service 2022) (Appendix B). The soil type has a non-hydric soil rating. The project area is on a relatively flat terrace along the Eel River. The elevation is approximately 480 feet above sea level.

4. METHODS

The wetland assessment was conducted on August 31, 2022, by Kyle Wear, M.A. Mr. Wear has over 25 years of experience conducting botanical surveys, wetland delineations, and other biological work in northern California and is trained in wetland delineation by the Wetland Training Institute.

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)* (Army Corps 2010). Two representative sample plots on the terrace were evaluated for hydrophytic vegetation, hydric soil, and wetland hydrology (Figure 2).

4.1. Hydrophytic Vegetation

The presence of hydrophytic vegetation is determined by the wetland indicator status of each plant species present using the *Western Mountains Valleys and Coast 2018 Regional Wetland Plant List* (Army Corps 2018). 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)	Almost always occur in wetlands	>99% frequency
Facultative Wetland Plants (FACW)	Usually occur in wetlands	67%-99%
Facultative Plants (FAC)	Equally occur wetlands and non-wetlands	33%-67%
Facultative Upland Plants (FACU)	Sometimes occur in wetlands	1%-33%
Obligate Upland Plants (UPL)	Rarely occur in wetlands	<1%

Figure 1. Location Map.

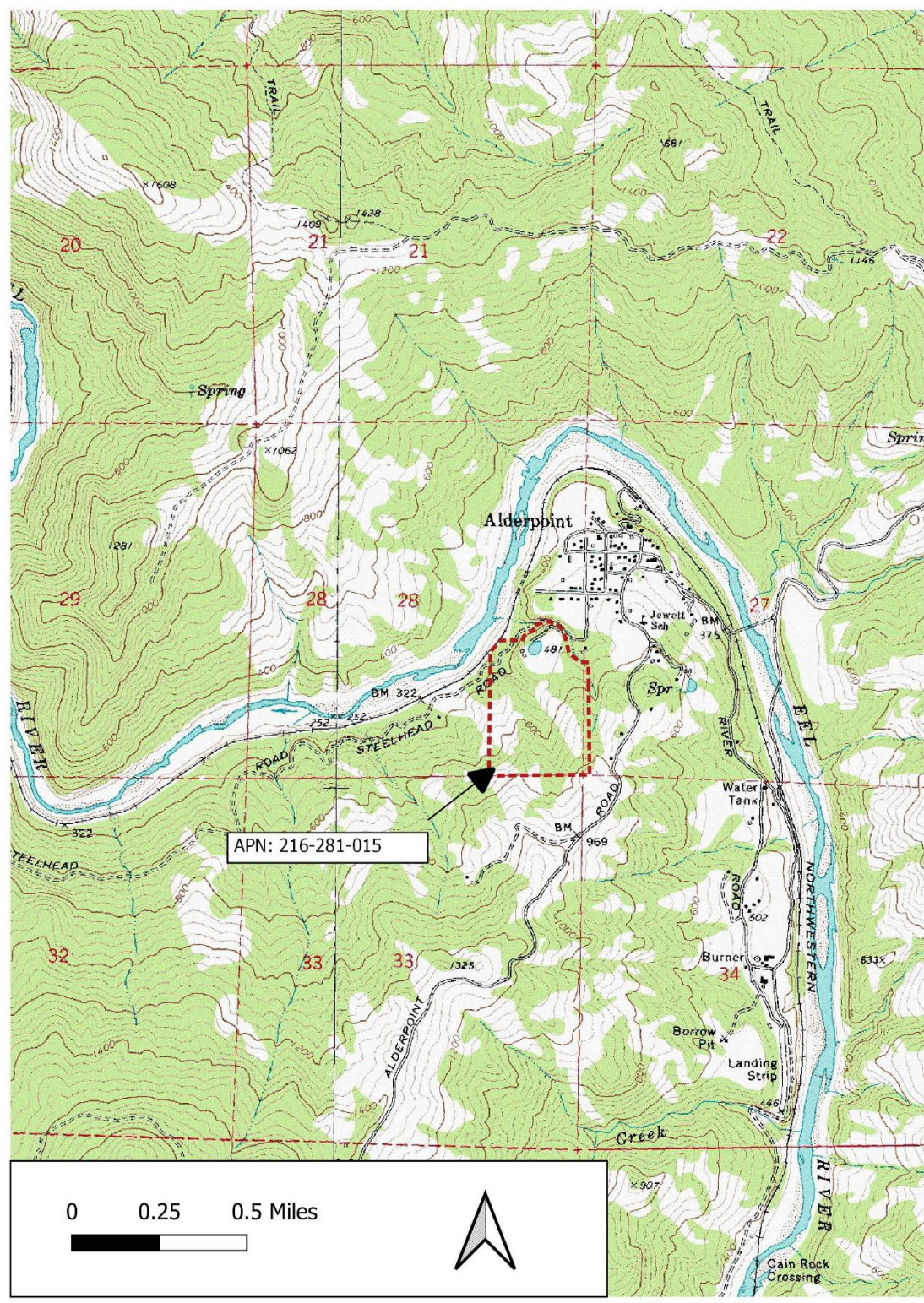


Figure 2. Sample Point Locations.



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%.

4.2. Hydric Soil

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

4.3. 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

No wetlands were identified on or near the terrace where the expansion is proposed. The vegetation in the sample plots is composed predominantly of grasses and young shrubs indicative of upland conditions including wild oat (*Avena barbata* [UPL]), rattlesnake grass (*Briza maxima* [UPL]), Mediterranean barley (*Hordeum marinum* [FAC]), and young coyote brush (*Baccharis pilularis* [UPL]) (Appendix C). There are occasional stands of spreading rush (*Juncus patens* [FACW]), nut-sedge (*Cyperus eragrostis* [FACW]), and pennyroyal (*Mentha pelugium* [OBL]), but the vegetation does not meet the hydrophytic vegetation criteria because of the prevalence of upland plants. Additional descriptions of the vegetation on the terrace and adjacent area are provided in the July 2022 botanical survey report.

The soil color is generally dark yellowish brown (10YR 4/4, 4/6 or 3/6). The soil does not meet any hydric soil indicators. The soil appears compacted from past land use. Information was provided the terrace was used as a log deck in the past. Soil compaction reduces drainage and can increase surface ponding. Portions of the terrace are likely subject to occasional ponding after heavy rain events, but the water is not present frequently enough or for long enough duration to create hydric soil or hydrophytic vegetation.

6. REFERENCES

Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experimental Station.

GretagMacbeth. 2000. *Munsell Soil Color Charts*. New Winsdor, NY

U.S. Army Corps of Engineers 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual. Western Mountains, Valleys, and Coast Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EI TR-10-3. Vicksburg, MS. Army Corps of Engineer Research and Development Center.

U.S. Army Corps of Engineers. 2018. *Western Mountains, Valleys, and Coast 2018 Regional Wetland Plant List*.

https://cwbiapp.sec.usace.army.mil/nwpl_static/data/DOC/lists_2018/Regions/pdf/reg_WMVC_2018v1.pdf

United States Department of Agriculture, Natural Resource Conservation Service. 2022. *Web Soil Survey*. <https://websoilsurvey.sc.egov.usda.gov>

APPENDIX A

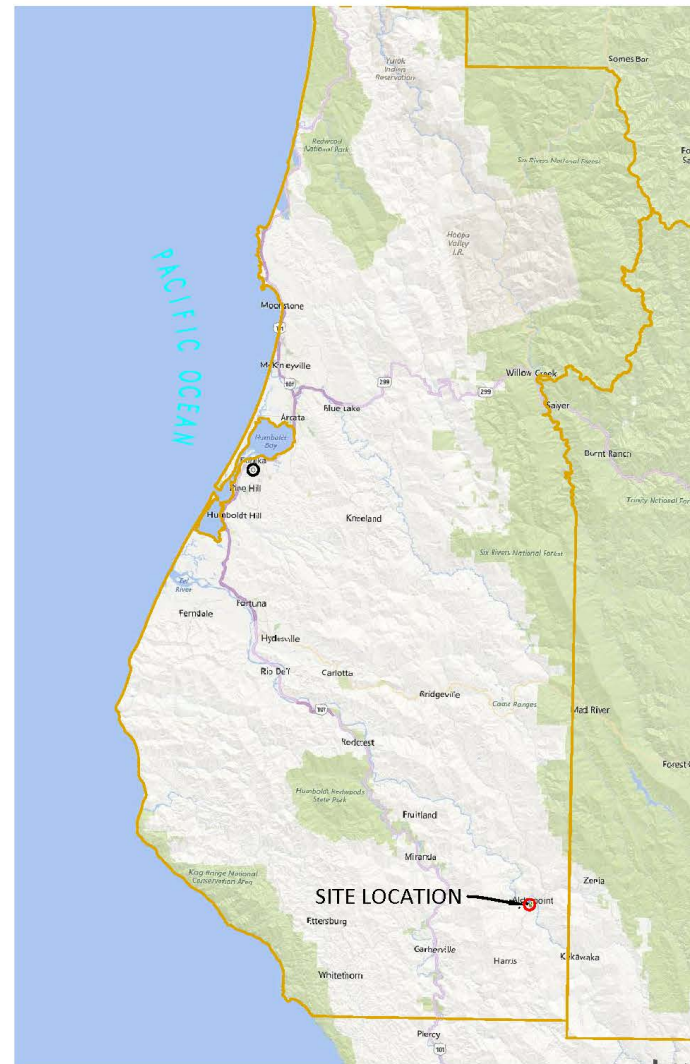
Site Plan

HUMBOLDT HERITAGE FARM MANAGEMENT, LLC

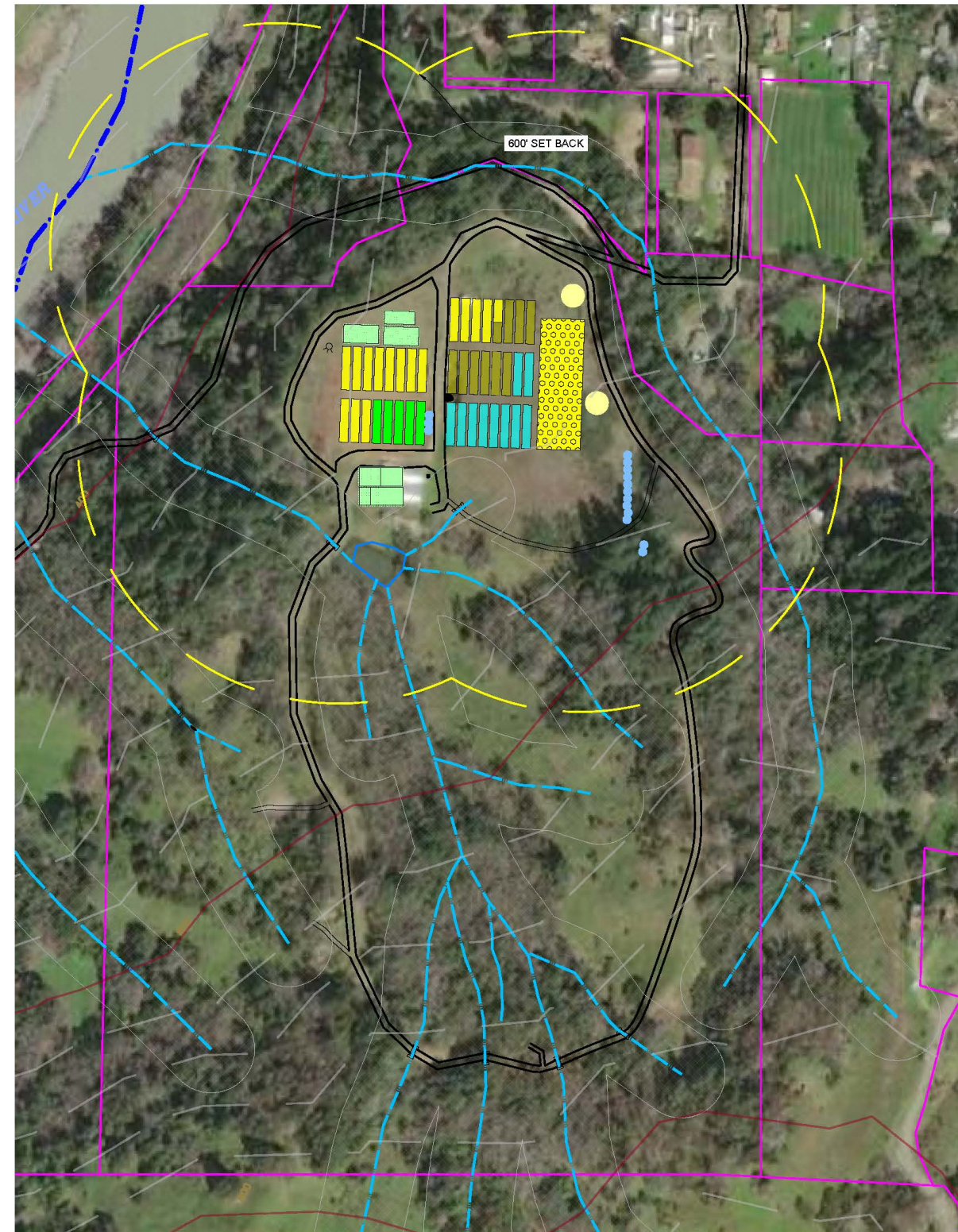
APN: 216-281-015

VICINITY MAP

1:10,000



AERIAL MAP



PROJECT INFORMATION

PROPERTY OWNER: IAN AKSELSEN
 ADDRESS: 845 STEELHEAD RD ALDERPOINT, CA 95511
 SHEET INFO: COVER PAGE

REVISIONS

NO	NOTES	DATE
1	NOTES-INITIALS	00-00-00
2	NOTES-INITIALS	00-00-00
3	NOTES-INITIALS	00-00-00
4	NOTES-INITIALS	00-00-00
5	NOTES-INITIALS	00-00-00
6	NOTES-INITIALS	00-00-00

DATE: 8/27/20
 DRAFTER: XX
 SCALE: AS SHOWN

SHEET
CP

PROJECT DIRECTIONS

- FROM: EUREKA, CA (IMAGE SOURCE: BING 2020)
1. HEAD SOUTH ON US-101 S (62.7 MI)
 2. TAKE EXIT 639B TOWARD REDWAY (0.2 MI)
 3. TURN RIGHT ONTO REDWOOD DR (0.2 MI)
 4. TURN RIGHT ONTO ALDERPOINT RD(16.8 MI)
 5. TURN LEFT ONTO 6TH ST (0.1 MI)
 6. TURN LEFT ONTO STEELHEAD RD (0.5 MI)

845 STEELHEAD RD

TRAVEL TIME

APPROXIMATELY: 1H 34 MIN (80.5 MI)

SHEET INDEX

- CP-COVER PAGE
- C1-PARCEL OVERVIEW
- C2-INSET A

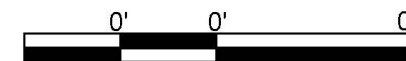
PROJECT INFORMATION

LAT/LONG: 40.1700,-123.6153
 APN: 216-281-015
 APPLICANT: HUMBOLDT HERITAGE FARM
 MANAGEMENT, LLC
 PARCEL SIZE: ± 70.48 ACRES
 ZONING: FR-B-5(5)
 APPLICATION TYPE:

COASTAL ZONE: N
 100 YEAR FLOOD: N

AGENT:

KAYLIE SAXON
 GREEN ROAD CONSULTING INC
 1650 CENTRAL AVE. SUITE C
 MCKINLEYVILLE, CA 95519
 707-630-5041



APPENDIX B

NRCA Soil Map

Soil Map—Humboldt County, South Part, California



Map Scale: 1:3,880 if printed on A landscape (11" x 8.5") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils



 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Humboldt County, South Part, California
 Survey Area Data: Version 10, Sep 6, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 8, 2019—Jun 21, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
101	Typic Udifluvents-Fluvents complex, 0 to 2 percent slopes	0.0	0.1%
461	Tannin-Burgsblock-Rockyglen complex, 30 to 50 percent slopes	14.7	27.5%
673	Coolyork-Yorknorth complex, 30 to 50 percent slopes	22.5	42.2%
1005	Parkland, dry-Garberville, dry complex, 2 to 9 percent slopes	16.1	30.2%
Totals for Area of Interest		53.4	100.0%

APPENDIX C

Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Humboldt Heritage Farms City/County: Humboldt Sampling Date: 8-31-22
 Applicant/Owner: Mendes State: CA Sampling Point: 1
 Investigator(s): K. Wear Section, Township, Range: 28, T3S, R5E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): A Lat: 40.17254416 Long: -123.61527516 Datum: _____
 Soil Map Unit Name: Parkland, dry-Gardenville, dry complex 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 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?	Yes _____	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes _____	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes _____	No <input checked="" type="checkbox"/>			
Remarks:					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u>	(A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u>	(B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u>	(A/B)
4. _____					
_____ = Total Cover					
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:	
1. _____				Total % Cover of:	Multiply by:
2. _____				OBL species <u>2</u>	x 1 = <u>2</u>
3. _____				FACW species _____	x 2 = _____
4. _____				FAC species <u>25</u>	x 3 = <u>75</u>
5. _____				FACU species <u>4</u>	x 4 = <u>16</u>
				UPL species <u>50</u>	x 5 = <u>250</u>
				Column Totals: <u>81</u>	(A) <u>343</u> (B)
				Prevalence Index = B/A = <u>4.23</u>	
Herb Stratum (Plot size: <u>10'-rad.</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Juncus patens</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	___ 1 - Rapid Test for Hydrophytic Vegetation	
2. <u>Arena barbata</u>	<u>20</u>	<u>Yes</u>	<u>UPL</u>	___ 2 - Dominance Test is >50%	
3. <u>Briza maxima</u>	<u>20</u>	<u>Yes</u>	<u>UPL</u>	___ 3 - Prevalence Index is ≤3.0 ¹	
4. <u>Hordeum marinum</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. <u>Rubus armeniacus</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	___ 5 - Wetland Non-Vascular Plants ¹	
6. <u>Croton setigerus</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
7. <u>Plantago lanceolata</u>	<u>2</u>	<u>No</u>	<u>FACU</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. <u>Cicchorum intybus</u>	<u>2</u>	<u>No</u>	<u>FACU</u>		
9. <u>Mentha pelogium</u>	<u>2</u>	<u>No</u>	<u>OBL</u>		
10. _____					
11. _____					
<u>101</u> = Total Cover					
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?	
1. _____				Yes _____	No <input checked="" type="checkbox"/>
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks: <u>Area B mowed</u>					

SOIL

Sampling Point: 1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10yr 4/4	70					3CL	
	10yr 4/6	30						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: Soil appears compacted

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Humboldt Heritage Farms City/County: Humboldt Sampling Date: 8-31-22
 Applicant/Owner: Mendes State: CA Sampling Point: 2
 Investigator(s): K. Wear Section, Township, Range: 28, T3S, R5E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR): A Lat: 40.17262283 Long: -123.61478498 Datum: _____
 Soil Map Unit Name: Parkland, dry-Gardenville, dry complex 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 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?	Yes _____	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes _____	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes _____	No <input checked="" type="checkbox"/>			
Remarks:					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u>	(A)
2. _____				Total Number of Dominant Species Across All Strata: <u>6</u>	(B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u>	(A/B)
4. _____				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
				OBL species _____	x 1 = _____
				FACW species <u>2</u>	x 2 = <u>4</u>
				FAC species <u>40</u>	x 3 = <u>120</u>
				FACU species <u>5</u>	x 4 = <u>20</u>
				UPL species <u>40</u>	x 5 = <u>200</u>
				Column Totals: <u>87</u>	(A) <u>344</u> (B)
				Prevalence Index = B/A = <u>3.95</u>	
Hydrophytic Vegetation Indicators:					
___ 1 - Rapid Test for Hydrophytic Vegetation					
___ 2 - Dominance Test is >50%					
___ 3 - Prevalence Index is ≤3.0 ¹					
___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
___ 5 - Wetland Non-Vascular Plants ¹					
___ Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
				Hydrophytic Vegetation Present?	
				Yes _____	No <input checked="" type="checkbox"/>
Hydrophytic Vegetation Present?					
Yes _____ No <input checked="" type="checkbox"/>					
Remarks: <u>Field is mowed</u>					

SOIL

Sampling Point: 2

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10Yr 3/6	90					CU	
	10Yr 4/6	10						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks: *Soil appears compacted*

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> FAC-Neutral Test (D5)
	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
	<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____

Water Table Present? Yes _____ No Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No Depth (inches): _____

Wetland Hydrology Present? Yes _____ No

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

Remarks: