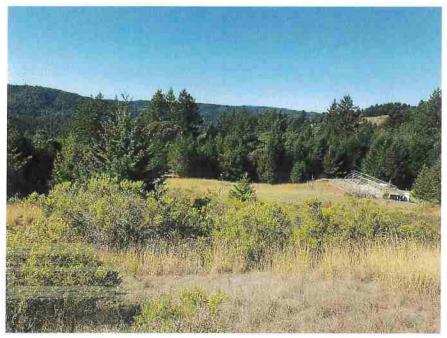


Aquatic Resources Delineation



161 Oak Rock Road (APN: 222-071-030) Humboldt County

Prepared by:

Kyle Wear Botanical Consultant kyle_wear@suddenlink.net (707) 601-1725

Prepared for:

Justin Baldwin 161 Oak Rock Road Garberville, CA 95542

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1. INTRODUCTION

This report includes the results an aquatic resources delineation conducted at 161 Oak Rock Road (APN: 522-143-002) near Benbow. The purpose of the study was to determine the extent of wetlands and other aquatic resources that will constrain proposed cannabis cultivation on the parcel.

2. DEFINITIONS

Waters of the United States

Waters of the United States are regulated by the 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 (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."

Streamside Management Areas

The Humboldt County General Plan (Humboldt County 2017) 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

Project Location

The parcel is located off Sproul Creek Road approximately 4.5 miles southwest of Benbow on the Garberville USGS quadrangle (Section 16, T5S, R3E) (Figure 1).

Soil, Topography, and Hydrology

The soil type mapped in the study areas is Briceland-Tankridge complex, 15 to 50 percent slopes (United States Department of Agriculture, Natural Resource Conservation Service 2019). This soil type is derived from sandstone and mudstone parent material. All the soil components have non-hydric soil ratings.

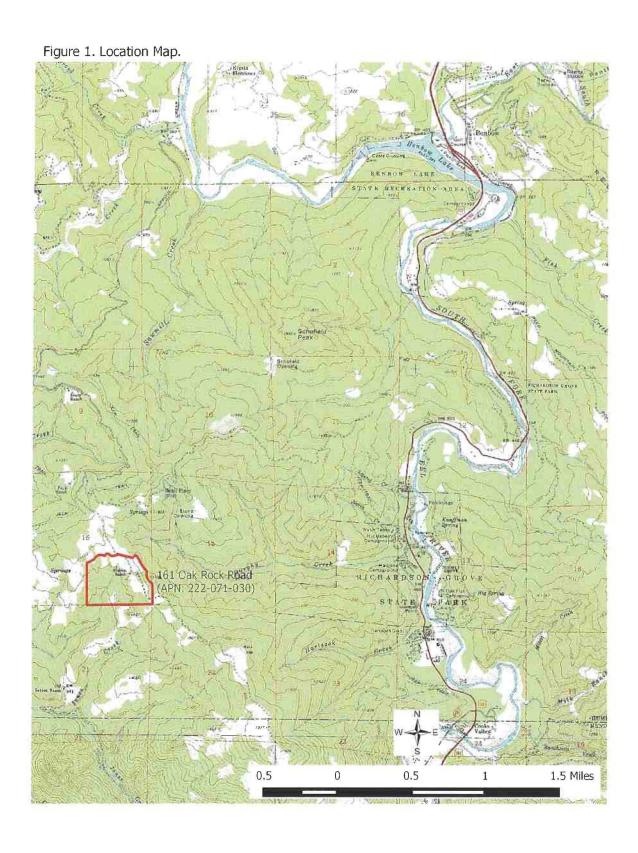
Most of the study area is on the relatively flat terrace on an otherwise approximately 25% southwest facing slope. The elevation is approximately 1,480 to 1,560 feet above sea level. The study area includes a wetland, spring, and streams that drain into Sproul Creek, a tributary of the South Fork Eel River.

4. METHODS

Wetlands

The delineation was conducted on October 11, 2019 by Kyle Wear, M.A. Mr. Wear has over 20 years of experience conducting floristic surveys and other botanical work in northern California and over ten years of experience conducting wetland delineations. Mr. Wear is also 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). A positive wetland determination is made when all three wetland parameters (hydrophytic vegetation, hydric, soil, and wetland hydrology) are present. Two representative sample plots were evaluated for hydrophytic vegetation, hydric, soil, and wetland hydrology. One of the sample plots was in the wetland and one was in the adjacent upland habitat. Wetland determination data forms are provided in Appendix A.



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* (Army Corps 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)	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%

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 are 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.

Other Aquatic Resources

Other aquatic resources include streams, rivers, ponds, lakes, and other waterbodies with a bed, bank, and an ordinary highwater mark and any adjacent riparian habitat.

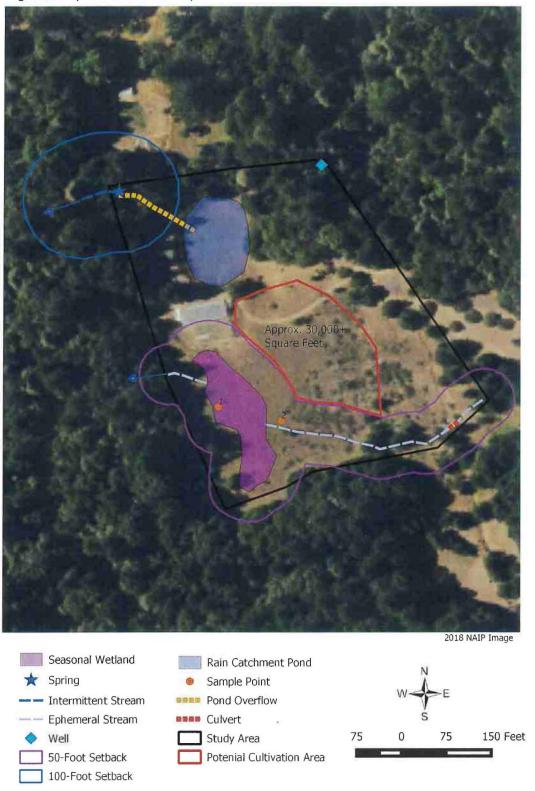
5. RESULTS AND DISCUSSION

Aquatic resources identified in the study area include a seasonal wetland, a spring, a shallow well, two ephemeral streams, one intermittent stream, and a rain catchment pond (Figure 2). Representative photos are provided in Appendix B.

Seasonal Wetland

The study area includes approximately 13,955 square feet of seasonal emergent wetland. The hydrophytic vegetation includes spreading rush (*Juncus patens* [FACW]), pennyroyal (*Menta pelugium* [OBL]), tall fescue (*Festuca arundinacea* [FAC]), and velvet grass (*Holcus lanatus* [FAC]). The soil meets hydric soil indicator F3 (Redox Dark Surface). The soil color was 10yr 2/2 with distinct and prominent 7.5yr 5/6 redox concentrations. The delineation was conducted

Figure 2. Aquatic Resources Map.



during the normally dry time of year and no primary indicators of wetland hydrology were present. The wetland does meet secondary hydrology indicator D5 (FAC Neutral Test). Ephemeral streams flow into and out of the wetland. Water is delivered from the upstream to the relatively flat terrace where there is saturation for sufficient frequency and duration during the winter and spring to produce hydrophytic vegetation and hydric soil before it drains to the lower stream. The wetland is likely also influenced by groundwater.

Intermittent Stream and Spring

There is a small spring at the headwaters of an intermittent stream in the study area. The spring had flowing surface water at the time of the study, but the water quickly percolated and was not flowing down the stream channel. The stream eventually drains into Sproul Creek. There is no riparian vegetation associated with these features.

Ephemeral Streams

Ephemeral streams flow into and out of the wetland as described above.

Shallow Well

There is a shallow well that has also been described as a spring. However, surface water does not appear to flow from the feature. Water is collected below the surface and is currently used for domestic purposes. There is also no hydrophytic vegetation or hydric soil that would indicate surface water or near-surface groundwater. There is upland vegetation around the well that includes a canopy of Douglas-fir (*Pseudotsuga menziesii* [FACU]) and tanoak (*Notholithocarpus densiflorus* var. *densiflorus* [UPL]). Herbaceous plants include sword fern (*Polystichum munitum* [FACU]), woodland madia (*Anisocarpus madioides* [UPL]), and goldback fern (*Pentagramma triangularis* ssp. *triangularis* [UPL]).

Rain Catchment Pond

The pond catches rainwater and likely some overland flow. There is no watercourse flowing into the pond. The pond overflow connects with the nearby intermittent stream. The pond was constructed between 2006 and 2009. There is no obvious stream channel in the 2006 Google Earth image at the location of the pond. Geological and archeological studies of the site have also found no evidence that there was a stream channel before the pond was constructed. The geologist indicated that area was prairie or grassland prior to construction of the pond. The Cultural Resources Investigation includes a 1948 aerial photo showing the area as a fenced orchard.

Upland

The upland habitat in the study area includes forests dominated by Douglas-fir (FACU), tanoak (UPL), and oaks (*Quercus* spp. [FACU/UPL]). The more open habitat includes stands of coyote brush (*Baccharis pilularis* [UPL]) and grassland dominated by non-native grasses including harding grass (*Phalaris aquatica* [FACU]) and sweet vernal grass (*Anthoxanthum odoratum* [FACU]).

Setbacks

The application was filed in 2016. Thus, the setbacks shown in Figure 2 are consistent with the Water Board 2015 Regional Order (R1-2015-0023) and the Humboldt County General Plan (Humboldt County 2017) or are the more conservative of the two.

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. https://usace.contentdm.oclc.org/digital/collection/p266001coll1/id/4532/

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

Humboldt County. 2017. Humboldt County General Plan (Adopted October 23, 2017). Chapter 10 Conservation and Open Space Elements.

https://humboldtgov.org/205/General-Plan

U.S. Army Corps of Engineers (Army Corps) 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.

https://usace.contentdm.oclc.org/utils/getfile/collection/p266001coll1/id/7646

Army Corps. 2016. Western Mountains, Valleys, and Coast 2016 Regional Wetland Plant List. Lichvar, R.W., D.L. Banks, and N.C. Melvin. The National Wetland Plant List: 2016 Update of Wetland Ratings. Phytoneuron 2016-30: 1-17.

https://www.codot.gov/programs/environmental/wetlands/nwpl_wmvc_2016v1.pdf

United States Department of Agriculture, Natural Resource Conservation Service. 2019. Web Soil Survey

https://websoilsurvey.sc.egov.usda.gov

APPENDIX A Wetland Determination Data Forms

				intains, valleys, and Coast Region
Project/Site: APN; 222-671-0	08C	City/Cou	unty: Hu	n koldt Sampling Date: 10-11-1
Applicant/Owner: Raldwin		-	•	State: CA Sampling Point:
Investigator(s): Reaction of the state of th		Section	, Township, Ra	ange: 16, TSS, R3E
Landform (hillslope, terrace, etc.):		Local re	elief (concave,	convex, none): None Slope (%): Z
Subregion (LRR):	_4:at:E_	428	845.2	LOAN 4479907.5 Datum: NADE
Soil Map Unit Name: Brice land - to	an Kric	Se	>	NWI classification:
Are climatic / hydrologic conditions on the site typical for thi		()	-1	
Are Vegetation, Soil, or Hydrology	significantly o	disturbe	ed? Are	"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology	naturally prof	olematic	c? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samp	ling point l	ocations, transects, important features, etc.
Hydric Soil Present? Yes X	lo		s the Samplec within a Wetla	
VEGETATION – Use scientific names of plan	nts.			
T. O. I. (D. I.)	Absolute		ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1			es? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				
3				Total Number of Dominant Species Across All Strata: (B)
4.				Percent of Dominant Species That Are OBL FACW or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)		= Total	Cover	(1027110 0124) 171011 0111101
1				Prevalence Index worksheet:
2.				
3.				FACW species x 2 =
4.	· ·			FAC species x3=
5	- 			FACU species x 4 =
Herb Stratum (Plot size: 16 'ートのから		= Total	Cover	UPL species x 5 =
1. Juch Dalens	30	V	FACW	Column Totals: (A) (B)
2. Mentha peluain	70	Ý	OKIL	
3. Holas laratus	20	¥	CAG	Prevalence Index = B/A =
4. The was arrest of a city of	20	¥	CAC	1 - Rapid Test for Hydrophytic Vegetation
5. Anthoxanthan odoratum	10	N)	FACU	2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0¹
7				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9.				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11.				¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	100=	Total C	Cover	be present, unless disturbed or problematic.
1				(fredmanked)
2.	;			Hydrophytic Vegetation
	_	Total C	Cover	Present? Yes No
% Bare Ground in Herb Stratum Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confir	
	rm the absence of indicators.)
Depth <u>Matrix</u> Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	<u>Texture</u> Remarks
6-12 10,12/2 90 7.5715/6 10 C M	Ch
	هما برنظه در بالنظم حديثه و حديثه و بين از بر بين النوبي فروبي النوبي و ا
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand C	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 MLRA 1	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	- Carpetin III Tomana)
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:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	riyano con i roscite.
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except	Secondary indicators (2 or more required) Water-Stained Leaves (R9) (MLRA 1, 2)
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WEILAND DETERMINATION DA			1 (1)		
Project/Site: APW: 222-671-630	City/0	County: 1-Jum	oold-	Sampling Date: 10)-11-1
Applicant/Owner: 30 Julyin			State: CA;	Sampling Point:	2
Investigator(s):,	Secti	on, Township, Ra	nge: 16,755	Carp Con	
Landform (hillslope, terrace, etc.): Jerrae	Loca	il relief (concave,	convex, none): <u> </u>	Q Slope (%	6): <u> </u>
Subregion (LRR):	Kar E 4	183±1 p	Long: N 44299	10.5 Datum:_	
Soil Map Unit Name: Brice and To	inkrida	and more	NWI classifica	tion:	
Are climatic / hydrologic conditions on the site typical for this	s time of year?	∕es <u> </u>	(If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrologys	•		'Normal Circumstances" pre		No
Are Vegetation, Soil, or Hydrology n			eded, explain any answers		
SUMMARY OF FINDINGS - Attach site map	showing san	npling point l	ocations, transects,	important featur	es, etc.
Hydrophytic Vegetation Present? Yes N	o_ <u></u>				
Hydric Soil Present? Yes No	o_ - X	Is the Sampled		No V	
Wetland Hydrology Present? Yes N	o_ <u></u>	within a Wetlar	ia? Yes	No <u>X</u>	
Remarks:					
			· - ., · · <u>- · · · · · · · · · · · · · · · · </u>		
VEGETATION - Use scientific names of plant	ts.				
Tree Stratum (Plot size:)		ninant Indicator	Dominance Test works		
1	% Cover Spe		Number of Dominant Spe That Are OBL, FACW, or		(A)
2.					_ (')
3.			Total Number of Dominal Species Across All Strata		(B)
4			•	and and	_ , ,
Sapling/Shrub Stratum (Plot size: 70 - 100/ E	= To	tal Cover	Percent of Dominant Spe That Are OBL, FACW, or	FAC: 0/6	_ (A/B)
Sapling/Shrub Stratum (Plot size: 10 - VA 9 - 3	70	(10)	Prevalence Index works		
2.	<u> </u>	VEL	Total % Cover of:	Multiply by:	
3.			OBL species	x 1 =	
4			FACW species		
5.			FAC species		
Herb Stratum (Plot size: 10 - 100)	20 = To	tal Cover	FACU species	·	
1. The laris aqualica	70 Y	(CACV	Column Totals:		
2. Aira Caryony lee		丁福司·			-
3. Jeroena lasio Diacines	5 7			= B/A =	
4. Anthoxantha operation	7 0	EACO	Hydrophytic Vegetation 1 - Rapid Test for Hy		
5			2 - Dominance Test i	· · · ·	ĺ
6.			3 - Prevalence Index		ĺ
7.			4 - Morphological Ad		apporting
8.				or on a separate shee	t)
9			5 - Wetland Non-Vas		
10			Problematic Hydroph		
11.	<u>⊘</u> ⊘ = Tot	-10	¹ Indicators of hydric soil a be present, unless disturb		must
Woody Vine Stratum (Plot size:)	= 10t	al Cover			
1			Hydrophytic		
2			Vegetation	No 📈	}
94 Bara Ground in Horb Stretum	= Tot	al Cover	Rresent? Yes	No <u>V</u>	}
% Bare Ground in Herb Stratum Remarks:					

Profile Descr	iption: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
1-16_	16422/2		CL
	· /		
······································			
-			
·			
			
·			
Type: C≂Cor	centration, D≃Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Gr	ains. ² Location: PL=Pore Lining, M=Matrix.
		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (/	41)	Sandy Redox (S5)	2 cm Muck (A10)
	pedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Hist	'	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
	Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
	Below Dark Surface (A11) k Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
	cky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
	eyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive La	yer (if present):		
Type:			
. , , , , , , , , , , , , , ,			
Depth (inch	es);		Hydric Soll Present? Yes No
Depth (inch	es);		Hydric Soll Present? Yes No
Depth (inch Remarks:			Hydric Soll Present? Yes No
Depth (inch Remarks: YDROLOG	Υ		Hydric Soll Present? Yes No
Depth (inch Remarks: YDROLOG Vetland Hydr	Y ology Indicators:	Laborit all that apply	
Depth (inch Remarks: YDROLOG Wetland Hydr Primary Indica	Y ology Indicators: tors (minimum of one required		Secondary Indicators (2 or more required)
Depth (inch Remarks: YDROLOG Vetland Hydr Primary Indica Surface W	Y ology Indicators: tors (minimum of one required	Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
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Remarks:



Photo 1. Seasonal wetland with spreading rush and pennyroyal.



Photo 2. Upland with coyote brush and non-native grasses.



Photo 3. Water tank at shallow well.



Photo 4. Well infrastructure collecting sub-surface water.



Photo 5. Dry pond.

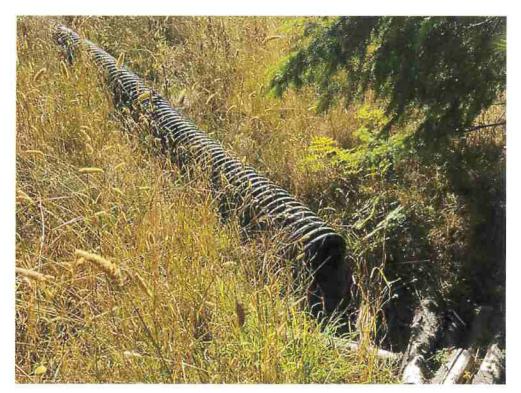


Photo 6. Pond overflow.



Photo 7.Pond overflow and spring at headwaters of intermittent stream.



Photo 8. Old pipe in spring from past water use.