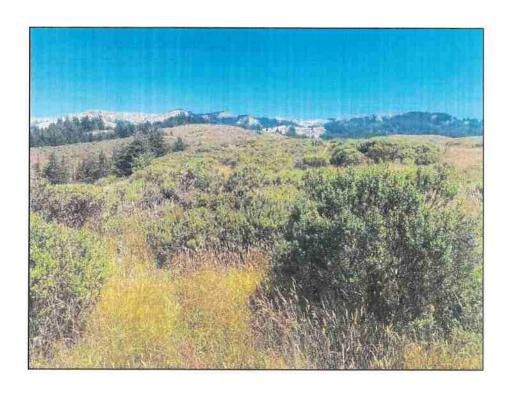
WETLAND DELINEATION REPORT

for

APN: 104-261-006 Petrolia, Humboldt County

July 2020







Prepared for:
Rainmaker Properties, LLC
25725 Old Mattole Road
Petrolia, CA 95536

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Cover Photo: View looking to the northeast of TP-5 at coyote brush scrub habitat. (Photo: June 25, 2020)

1.0 INTRODUCTION

The subject property historically has been used for cattle grazing and timber harvest activities. Currently, the parcel is being utilized for permitted cannabis cultivation under the Humboldt County Land Use Ordinance and the State Water Resources Control Board General Order for Cannabis Cultivation (Order WQ 2019-0001-DWQ).

The purpose of this report is to identify and describe wetlands within an 8.5-acre survey area of the property. This report facilitates efforts to avoid impacts to aquatic resources/functions and serves as a planning tool for proposed grading by establishing a 100-foot buffer for wetlands identified within the survey area.

1.1 Location

The property is located in a coastal hillside setting within the McNutt Gulch drainage basin, which outlets into the Pacific Ocean and is approximately 2.8 miles northwest of the town of Petrolia. The property is located within the USGS Petrolia 7.5-minute Quadrangle, Township 1S, Range 2W, in the southeast portion of Section 30, Humboldt County, California (Appendix A, Figure 1).

2.0 METHODS

An assessment was conducted on the property for jurisdictional waters and wetlands of the United States pursuant to the *Corps of Engineers Wetlands Delineation Manual* (ACOE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (WMVC Supplement, ACOE 2010). Sampling locations were chosen based on representative plant communities and topography within the project site (Appendix A, Figure 2). The sampling locations were evaluated for the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. Wetland boundaries were delineated by sampling paired data points to determine wetland to upland transitional areas (Appendix B "Wetland Determination Data Forms").

Federal regulations define wetlands as:

"Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil" [33CFR328.3(b)].

This definition expresses that, under normal conditions, three parameters must be met to classify a site as a jurisdictional wetland, which includes hydrophytic vegetation, hydric soils, and wetland hydrology.

The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory (NWI) has wetlands documented within the subject parcel, but not within the survey area (Appendix A, Figure 3). Due to the lack of field data, this general categorization by NWI is not intended for planning purposes as noted in the "Data Limitations, Exclusions, and Precaution" disclaimer:

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high-altitude imagery. Wetlands are identified based on

vegetation, visible hydrology, and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis. (USFWS, 2020)

2.1 Vegetation

The presence of hydrophytic vegetation for each site was determined by applying the wetland indicator status (see Table 1, below) of each plant species present in multiple strata using the *WMVC 2016 Wetland Plant List* (Lichvar, 2016). A plant species list of the collective sampling points is provided in Appendix C of this report.

Indicator Status	Indicator Code	Description	% Occurrence in Wetlands
Obligate	OBL	Occur almost always under natural conditions in wetlands.	99%
Facultative Wetland	FACW	Usually occur in wetlands but occasionally found in non-wetlands.	67-99%
Facultative	FAC	Equally likely to occur in wetlands and non-wetlands.	33-67%
Facultative Upland	FACU	Usually occur in non-wetlands but occasionally found in wetlands.	1-33%
Upland	UPL	Occur in wetlands in another region, but occur almost always under natural conditions in non-wetlands in the region specified.	1%

The methodology used for determining the presence of hydrophytic vegetation is dependent on the dominant plant species observed at a sampling location using the 50/20 rule. The WMVC Regional Supplement (ACOE 2008) describes the 50/20 rule as:

"...a repeatable and objective procedure for selecting dominant plant species and is recommended when data are available for all species in the community.

Dominant species are chosen independently from each stratum of the community. In general, dominants are the most abundant species that individually or collectively account for more than 50 percent of the total coverage of vegetation in the stratum, plus any other species that, by itself, accounts for at least 20 percent of the total."

Hydrophytic vegetation was determined at the sampled locations by using the Dominance Test, which is met when more than 50 percent of the dominant plant species across all strata are rated OBL, FACW, or FAC. If the Dominance Test for hydrophytic vegetation was not met, then the Prevalence Index was applied.

The prevalence index is a weighted-average wetland indicator status of all plant species in the sampling plot or other sampling unit, where each indicator status category is given a numeric code

(OBL = 1, FACW = 2, FAC = 3, FACU = 4, and UPL = 5) and weighting is by abundance (absolute percent cover). It is a more comprehensive analysis of the hydrophytic status of the community than one based on just a few dominant species. It is particularly useful (1) in communities with only one or two dominants, (2) in highly diverse communities where many species may be present at roughly equal coverage, and (3) when strata differ greatly in total plant cover (e.g., total herb cover is 80 percent but sapling/shrub cover is only 10 percent). The prevalence index is used in this supplement (WMVC) to determine whether hydrophytic vegetation is present on sites where indicators of hydric soil and wetland hydrology are present, but the vegetation initially fails the dominance test.

The following procedure is used to calculate a plot-based prevalence index. The method was described by Wentworth et al. (1988) and modified by Wakeley and Lichvar (1997). It uses the same field data (i.e., percent cover estimates for each plant species) that were used to select dominant species by the 50/20 rule, with the added constraint that at least 80 percent of the total vegetation cover on the plot must be of species that have been correctly identified and have an assigned indicator status (including UPL). For any species that occurs in more than one stratum, cover estimates are summed across strata. Steps for determining the prevalence index are as follows:

- 1. Identify and estimate the absolute percent cover of each species in each stratum of the community. Sum the cover estimates for any species that is present in more than one stratum.
- 2. Organize all species (across all strata) into groups according to their wetland indicator status (i.e., OBL, FACW, FAC, FACU, or UPL) and sum their cover values within groups. Do not include species that were not identified.
- 3. Calculate the prevalence index using the following formula:

$$PI = rac{Aobl + 2A\mathit{facw} + 3A\mathit{fac} + 4A\mathit{facu} + 5A\mathit{upl}}{Aobl + A\mathit{facw} + A\mathit{fac} + A\mathit{facu} + A\mathit{upl}}$$

where:

PI = Prevalence index

A_{OBL} = Summed percent cover values of obligate (OBL) plant species;

A_{FACW} = Summed percent cover values of facultative wetland (FACW) plant species:

A_{FAC} = Summed percent cover values of facultative (FAC) plant species;

A_{FACU} = Summed percent cover values of facultative upland (FACU) plant species;

A_{UPL} = Summed percent cover values of upland (UPL) plant species.

For the prevalence index to be met, the value calculated based on the existing cover of plant species must be 3.0 or less.

2.2 Soils

Prior to the site inspection, existing soil data was accessed from the USDA Web Soil Survey to identify potential hydric soils located within the project site (Appendix A, Figure 3). Refer to Table 2 below for a description of the soil map units on the subject parcel. Oceanhouse soils, which make up 35 percent of the Mattole-Oceanhouse Complex, was the only component in the Web Soil Survey results that was rated to have hydric soils. The Oceanhouse soil series is classified as fine, mixed,

active, mesic Typic Endoaquolls and the typical pedon is described having multiple hydric soil indicators including but not limited to the Redox Dark Surface (F6) indicator.

Table 2. NRCS Web Soil Survey Results for APN 104-261-006						
Map Unit Symbol	Map Unit Name	Hydric Soil Rating				
144	Garberville-Parkland Complex	Not Hydric				
152	Benbow	Not Hydric				
505	Northbear-Caperidge-Taylorpeak Complex	Not Hydric				
506	Caperidge-Taylorpeak-Northbear Complex	Not Hydric				
507	Northbear-Caperidge-Capetown Complex	Not Hydric				
4415	Mattole-Oceanhouse Complex	Partially Hydric				

Soil profiles were examined for hydric soil indicators listed in the WMVC Regional Supplement. The soil profiles for each test pit within the project site was documented on the associated wetland determination data forms (Appendix B). The Munsell color chart (Gretag/Macbeth, 2000) was used to determine the hue, value, and chroma of soil matrices and redoximorphic features. Soil textures were determined using the texture by feel technique. When characterizing soil profiles, each sampling location was also inspected for wetland hydrology indicators.

2.3 Hydrology

At each test pit, primary and secondary wetland hydrology indicators were documented on the associated wetland determination data forms, if present (Appendix B). Indicators for wetland hydrology are derived from four groups, (A) observation of surface water or saturated soils; (B) evidence of recent inundation; (C) evidence of current or recent soil saturation; and (D) evidence from other site conditions or data. Additional remarks regarding hydrology are included in the field data forms.

Site hydrology was evaluated prior to conducting the assessment of the Project Site by utilizing the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) Climate Analysis for Wetlands Tables (WETS). Precipitation data from the WETS tables was interpreted by using the Direct Antecedent Rainfall Evaluation Method or DAREM (Sprecher and Warne, 2000). The DAREM method utilizes data from the three months prior to inspection to determine whether precipitation, and inherently site hydrology, is "normal", "drier than normal", or "wetter than normal" (Sumner et al. 2009). Prior to the June 25, 2020 inspection, rainfall data for March, April, and May was compared to the 30-year rainfall average sourced from the nearest WETS station in Scotia, CA (1990-2020). Normal precipitation for a given month is defined by falling within the 30th and 70th percentile of the 30-year average rainfall for a given area. Based on the assessment of the WETS table, precipitation was considered to be normal at the time inspection (Table 3).

NOTE: in Appendix B, all field data forms incorrectly indicate that conditions were "drier than normal" in the hydrology remarks, "Normal Conditions" were not present, hydrology was "naturally problematic", and that hydrologic conditions on the site were not typical for this time of year. Prior to the site inspection, the condition value for the most recent month in Table 3 was classified as "2"

surface, as well as the secondary indicators Geomorphic Position (D2) and the FAC-Neutral Test (D5). The extent of Wetland #1 was delineated by the paired sampling points TP-1, TP-2, and TP-3. Wetland #1 slopes towards a confined swale below the old road alignment where the feature transitions into a Class III watercourse (See Appendix A, Figure 2).

4.0 RECOMMENDATIONS

The following recommendation are based on current regulatory standards and policies:

- The State Water Resources Control Board General Order specifies that a 100-foot riparian buffer should be applied for any intermittent watercourses or wetlands.
 - O As per Attachment A of the Cannabis Cultivation Policy the following is also indicated: "Cannabis cultivators enrolled in a Regional Water Board order adopting WDRs or a waiver of WDRs for cannabis cultivation activities prior to October 17, 2017, may retain reduced setbacks applicable under that Regional Water Board order unless the Regional Water Board's Executive Officer determines that the reduced setbacks applicable under that order are not protective of water quality."
 - o If any state or other local regulatory agency, including Humboldt County, has a different buffer specified, provide the buffer of whichever setback is larger.
- Continue to monitor the decommissioned road bed, avoid storing materials in close proximity to Wetland #1, and consider installing exclusionary fencing on the flat area, adjacent to the cultivation area, setback 25-feet from the wetland to avoid potential disturbance and limit access.
- If any additional earth-moving work is to be proposed elsewhere on the property, consult with a qualified professional to identify any sensitive biological resources or habitats.

In my professional opinion, the features described within this report satisfy the criteria to be wetlands/waters of the state and/or US pursuant to the Army Corps of Engineers' Regional Supplement and pursuant to confirmation by appropriate regulatory staff including but not limited to the Army Corps of Engineers.

Greg Davis, Staff Wetland Scientist

July 1, 2020

5.0 REFERENCES

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Appendix A

Maps

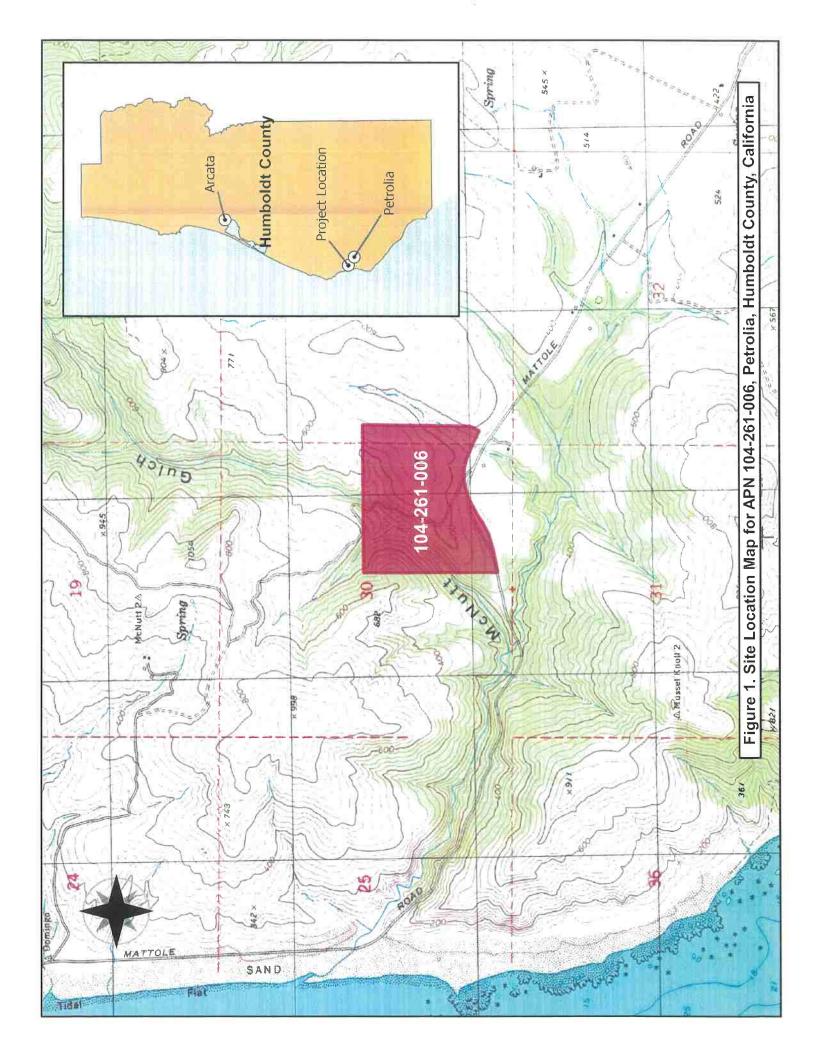
Rainmaker Wetland Delineation Report

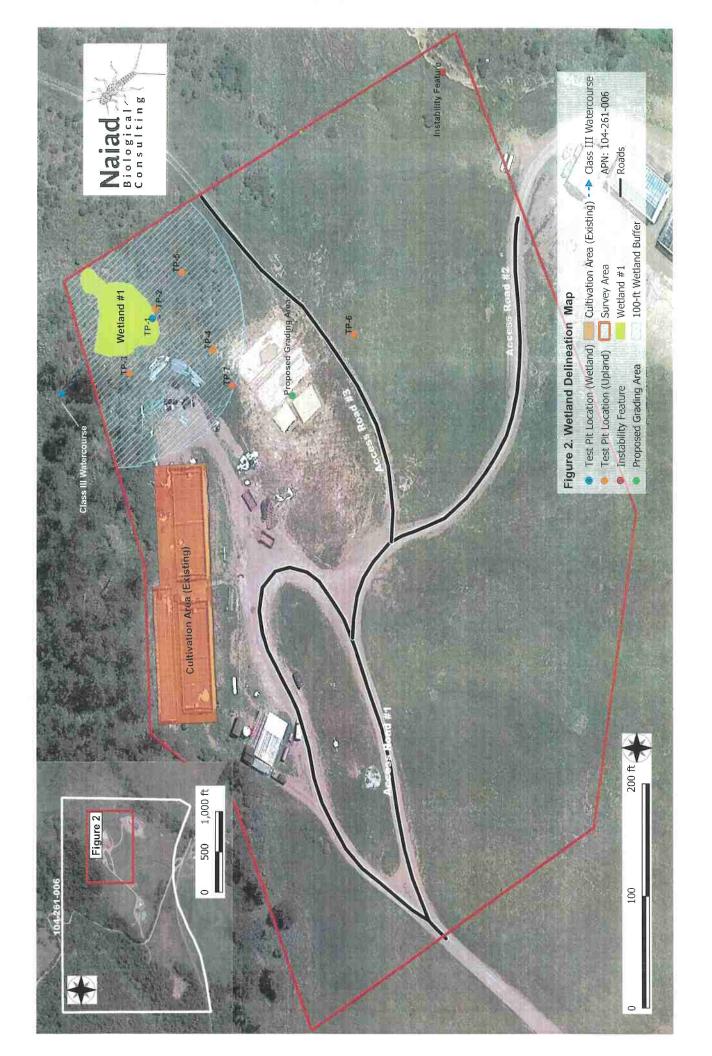
July 2020

Figure 1. Site Location Map

Figure 2. Wetland Delineation Maps

Figure 3. NWI and Web Soil Survey Map







Appendix B

Wetland Determination Data Forms

Rainmaker Wetland Delineation Report

July 2020

A 45 A		untains, valleys, and Coast Region
Project/Site: APN: 104-261-006	City/County:	is Humboldt Sampling Date: 6-25-20
Applicant/Owner: Pain ms ker UC		State: A Sampling Point: TF-1
Investigator(s): 6 Mo. Day	Section, Township, Ra	ange: <u>S30</u> , TIS, R2W
Landform (hillslope, terrace, etc.): 1/3/6 ps	Local relief (concave,	convex, fong): None Slope (%): 5
		Long: 124.328747 Datum: W6584
Soil Map Unit Name: 44 15 - Mattale - Ocean	shouse Complex	NWI classification: Nune
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 ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ima	ap showing sampling point l	locations, transects, important features, etc.
Hydric Soil Present? Yes // Wetland Hydrology Present? Yes //	No Is the Sampleo within a Wetlan	
Remarks: 7P is located and eld VEGETATION – Use scientific names of pl		expressioned ~1017)
VEGETATION - Ose scientific flames of pr	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1.		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: (A/B)
Sapling/Shrub Stratum (Plot size: 10 × 10)	1	Prevalence Index worksheet:
		Total % Cover of: Multiply by:
3.	The second secon	OBL species O x1=
4	Martining Philipsen and particular title and analysis with the second and the sec	FACW species $60 \times 2 = 120$
5.	waterfalls waterfalls waterfalls with the control of the control o	FAC species 10 x3 = 60
International Action	10 = Total Cover	FACU species
Herb Stratum (Plot size: 10 x 10)	60 J. FACEN	Column Totals: 120 (A) 352 (B)
2. Holeus langton	TO I FAL	The state of the s
3. Elymus glaven	10 FACO	Prevalence Index = B/A = 2.93 Hydrophytic Vegetation Indicators:
4. Senecio jacobaca		1 - Rapid Test for Hydrophytic Vegetation
5. Vicia Kirsuta	Professional American State of the State of	2 - Dominance Test is >50%
8.		± 3 - Prevalence Index is ≤3.01
7.		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		5 - Wetland Non-Vascular Plants ¹
10		Problematic Hydrophytic Vegetation ¹ (Explain)
11.	3 b. 48	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 10 x 10)	Total Gover	
	10 V FACU	Hydrophytic
1. Rubes yesinus		
1. Pubes VESIAUS 2.		Vegetation No.
	1 = Total Cover	Present? Yes No

~ ₹	1
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Sampling Point: TP - /

Depth	Matrix		th needed to docu	x Feature		OI GORIHI	n are arsence at II	iuica:Oto.j
(inches)	Color (moist)	%	Color (moist)	x realure %	Type ¹	Loc ²	Texture	Remarks
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¹Type: C=C Hydric Soil	oncentration, D=De	pletion, RM=	Reduced Matrix, CS	S=Covered	or Coate	d Sand Gr		: PL=Pore Lining, M=Matrix.
Histosol		Capie to an			su.)			r Problematic Hydric Solls ³ :
	olpedon (A2)		Sandy Redox (3 Stripped Matrix	•			2 gm Mud	ck (ATU) ent Material (TF2)
Black Hi			Loamy Mucky N	. ,) (excent	MIRA 1		llow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleved			12164111111		plain in Remarks)
	d [*] Below Dark Surfa	ce (A11)	Depleted Matrix	(F3)	•		466	,,,
	ark Surface (A12)		<u> </u> Redox Dark Su	rface (F6)			³ Indicators of	hydrophytic vegetation and
	Aucky Mineral (S1)		Depleted Dark S	-	7)		wetland hy	drology must be present,
	Bleyed Matrix (S4)	ing a second	Redox Depress	ions (F8)			unless dist	urbed or problematic.
	_ayer (if present):							я
Туре:			MANAGAMA					
Depth (inc	ches):	Mary Commence of the Commence					Hydric Soil Pres	ent? Yes <u>V</u> No
YDROLO								and the state of t
	drology Indicators							CONTROL OF THE PROPERTY OF THE
		one required	: check all that apply			***************************************		Indicators (2 or more required)
Sincern	Water (A1)		Water-Stai			cept		Stained Leaves (B9) (MLRA 1, 2,
High Wa	ter Table (A2)		Western	I, 2, 4A, a	nd 4B)		mark	and 4B)
F Saturation			Salt Crust					ge Patterns (B10)
Water M	•		Aquatic Inv					ason Water Table (C2)
	t Deposits (B2)		Hydrogen 8					ion Visible on Aerial Imagery (C9)
Drift Dep							ts (C3) 🛨 Geomo	
	t or Crust (B4)		Presence of		, ,			v Aquitard (D3)
Iron Dep	• •		Recent Iron					eutral Test (D5)
	Soil Cracks (B6)	1	Stunted or		•) (LRR A)	***************************************	Ant Mounds (D6) (LRR A)
	n Visible on Aerlal Vegetated Concav			lain in Ren	narks)	Ė	Frost-F	leave Hummocks (D7)
Field Observ		e ounace (D	0)	Marco	M. W. C.			
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Water Table I	resent?	esN	o Depth (inc	nes):	10	-		
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			intains, valleys, and Coast Region
Project/Site: APN: 104-261-006		City/County: Petro	13/Humboldt Sampling Date: 6-25-2626
Applicant/Owner: Lain Waker LLC		•	State: GA- Sampling Point: TP-Z-
Investigator(s): Crea Davis		Section, Township, Ra	inge: <u>S30, T1S, Q2W</u>
Landform (Millslope, terrace, etc.): Hilslope		Local relief (concave,	convex, none): Concaid Slope (%):
Subregion (LRR):	Lat: <u>40</u>).351419	Long: -124,328716 Datum: W6884
Soil Map Unit Name: 152 - Bentow		All the second s	NWI classification: Nove
Are climatic / hydrologic conditions on the site typical for	this time of ye	ar? 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 pro	blematic? (if ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing	sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes			
Hydric Soil Present? Yes		is the Sampled	\ \ \
Wetland Hydrology Present? Yes		within a Wetlar	nd? Yes No V
Remarks:			
VEGETATION – Use scientific names of pla	ants.		
	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		- Approximation - Approximatio	
3.		Annih de la constante de la co	Total Number of Dominant Species Across All Strata: (B)
4.		And the second s	
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 10 × (2)	9	FAC	Prevalence Index worksheet:
1. Toxicodendien diergilabum		**************************************	Total % Cover of: Multiply by:
2. Baccharis pilularis		V DI	OBL species
3.		\$4000000000000000000000000000000000000	FACW species
64.	and the same of th	termination of the second of t	FAC species 64 x 3 = 172
1 4	A.	= Total Cover	FACU species
Herb Stratum (Plot size: 10×16)		1	
1. Holeus langta	_ <u>60</u>	YAC	Column Totals: 117 (A) 469 (B)
2. Festuca californics	<u> </u>	Y FACO	Prevalence Index = B/A = 3,50
3. Const Plantage lancolata	<u> </u>	FACO	Hydrophytic Vegetation Indicators:
4. Finnex acetosella 5. Varaxacum officinale	<u> </u>	FALU	1 - Rapid Test for Hydrophytic Vegetation
6. Vantionia californica	2	<u> </u>	2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
8.		(minutes to his particular and manufactures and manufactu	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
9.		tomorphism and principles and the principles and th	5 - Wetland Non-Vascular Plants ¹
10.			Problematic Hydrophytic Vegetation ¹ (Explain)
11.			¹ Indicators of hydric soil and wetland hydrology must
	100	= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 10 × 10)	1 13	1 com	1
1. P. WSINUS		V FALU	Hydrophytic /
L.	76	To the Change of the Control of the	Vegetation Present? Yes No
% Bare Ground in Herb Stratum		= Total Cover	
Remarks:	······································		
A			

Ö	~	
73	u	1

Sampling Point: TP-Z

113

Profile Des	cription: (Descr	ribe to the de	opth needed to docur	nent the	indicator	or confirn	n the absence	of Indicators.)
Depth (inches)	Matr Color (moist	ix) %	Redo Color (moist)	x Feature		***************************************		
0 - y			COIOI (MOISU	%	Type ¹	<u>Loc</u>	<u>Texture</u>	Remarks
***************************************	104 23/2		M	**************************************	Anna.		Landaria	hibrory Cale
4-14	104 R 3/2	100	7 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Titles	,per-1	******	5:CL	SBK structure.
	Accessing to the second se		***************************************					big increase in che
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***************************************	Anthropologica propulations (special constructions)		· ·	###		***************************************	etechili,	de la company de
		1	Andrews Andrew	***************************************	***************************************	***************************************	- Hill the companied with	district of the second of the
1			· · · · · · · · · · · · · · · · · · ·	***************************************			M-American Company	
Hydric Soll	oncentration, D=0	Depletion, RN	M=Reduced Matrix, CS	=Covered	or Coated	d Sand Gr		ation: PL=Pore Lining, M=Matrix.
Histosol		oncable to al	I LRRs, unless other		ed.)			rs for Problematic Hydric Soils³:
Manager .	oipedon (A2)		Sandy Redox (S Stripped Matrix (•				Muck (A10)
Black Hi			Loamy Mucky M) /excent	MI 12 A 1\		Parent Material (TF2) Shallow Dark Surface (TF12)
1	n Sulfide (A4)		Loamy Gleyed N	fatrix (F2)) (excebt	WILKM I)		r (Explain in Remarks)
	l Below Dark Sur	face (A11)	Depleted Matrix				5416	· (wyhtani ii i Noingina)
	irk Surface (A12)		Redox Dark Sur				³ Indicator	s of hydrophytic vegetation and
	lucky Mineral (S1		Depleted Dark S	urface (F	7)			d hydrology must be present,
	leyed Matrix (S4)		Redox Depression	ons (F8)			unless	disturbed or problematic.
	.ayer (if present)):						
Type:	In a No.		eethidimeen.comm					/
	hes):			·····			Hydric Soil F	Present? Yes No V
Remarks:								
	*							
						Y		
HYDROLOG	3 Y						**************************************	
Wetland Hyd	rology Indicator	' ঙ :		With the second		**Papa	The state of the s	- Lander House Control of the Contro
Primary Indica	ators (minimum o	f one require	d; check all that apply)				Second	tary Indicators (2 or more required)
	Vater (A1)		Water-Stain		s (B9) (exc	copt		iter-Stained Leaves (B9) (MLRA 1, 2,
High Wat	er Table (A2)		MLRA 1,					4A, and 4B)
Saturation	n (A3)	ů.	Salt Crust (E					alnage Patterns (B10)
Water Ma	ırks (B1)		Aquatic Inve	rtebrates	(B13)			/-Season Water Table (C2)
Sediment	Deposits (B2)		Hydrogen Si					turation Visible on Aerial Imagery (C9)
Drift Depo	osits (B3)		Oxidized Rh			ving Roots		omorphic Position (D2)
Algal Mat	or Crust (B4)		Presence of	Reduced	Iron (C4)			allow Aquitard (D3)
Iron Depo	sits (B5)		Recent Iron	Reduction	n in Tilled	Solls (C6)	FA	C-Neutral Test (D5)
Surface S	ioii Cracks (B6)		Stunted or S	tressed P	lants (D1)	(LRR A)		sed Ant Mounds (D6) (LRR A)
	h Visible on Aeria			in in Rem	ıarks)	٠	Fro	st-Heave Hummocks (D7)
Sparsely	Vegetated Conca	ive Surface (I	38)			1		·
Field Observa	ations:		J. F		***************************************			AND THE REAL PROPERTY OF THE P
Surface Water	Present?	Yes	Vo <u>√</u> Depth (inch	es):		.		/
Water Table P	resent?	Yes I	No/ Depth (inch	es):	e Arma de Maria di Lando de Maria di Lando de L	.		/
Saturation Pre	sent?		No Depth (Inch				id Hydrology I	Present? Yes No
(includes capil Describe Reco	lary fringe)		nitoring well, aerial ph			ĺ		
ANNING HOR		ու ցոււցել 1110	ruming well geligi bu	owa, prev े	тоив швре	outuris), II	avaliable:	
Remarks: /\				····	. •	8 S		
	ice Than	MONMO	rejected	(500	WETS	, ARTA). No	hydric sols
bre sen-	so hua	drologn	weed at	•			m?	1
V.	}	()	. a.c. cal					

WEILAND DETERMINATION DA	IA FORI	vi – vvest	ern ivioui	ntains, valleys, and Coast Region
Project/Site: APN: 104-761-006		City/County:	Petro	lia / Wumbold+ sampling Date: 6-25-4
Applicant/Owner: Dainmaker UC		was a supplied to the late of		State: A Sampling Point: 11-3
Investigator(s): Gveg Day S		Section, To	wnship, Rar	nge: S30, TIS, RZW
Landform (hillslope, terrace, etc.): h 1/5/ope		Local relief	(concave, o	convex, none): Slope (%):
Subregion (LRR):				Long: - 124.328973 Datum: 6/658
Soil Map Unit Name: 4415- Worth le - Oce n	<u> </u>	Compl	2.3	/ NWI classification: Done
Are climatic / hydrologic conditions on the site typical for this	time of yea	ır? Yes	No	(If no, explain in Remarks.)
Are Vegetation, Soll, or Hydrology significant s	gnificantly o	disturbed?	Are "	Normal Circumstances" present? Yes No/
Are Vegetation, Soil, or HydrologyVna	iturally prob	olematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing	sampling	g point lo	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	\	withi	e Sampled in a Wetlan	nd? Yes No V
Remarks: Area adjacent to graded	+14+	and	Dreen	houses on more or 1895
VEGETATION – Use scientific names of plant	s.			
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
4				Species Across All Strata: (B) Percent of Dominant Species
Constant Charles Charles (Plat size, 10 × 10)		= Total Cov	⁄er	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 10 × 10) 1. Daccharis pilotaris	65	V	MI	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.		W(W)ALL		OBL species
4.		and		FAC species 62 x3 = 186
5.	75	- T-1-1 O-	**************************************	FACU species 40 x4= 160
Herb Stratum (Plot size: 10 > 10)	- Contract	= Total Cov	/er	UPL species 38 x 5 = 190
1. H. lanatus	<u> 55</u>	1/	<u>PAC</u>	Column Totals: 146 (A) 536 (B)
2. Dactylis glemerata	35		FACU	Prevalence Index = B/A = 3.83
3. Unthania californica			FAL	Hydrophytic Vegetation Indicators:
4. Cardous enchocephalus	<u> </u>		FAC	1 - Rapid Test for Hydrophytic Vegetation
5. Herade um maximum	1		11/2 11/2	2 - Dominance Test is >50%
6. Brassica Nigra				3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting
8.		DITTUDE CONTRACTOR OF THE PARTY	Amazonia al presente al presen	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 be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 10 × 10)		Total Cove	er	
1. R. VEGIOUS	<i>-</i> 5	<u> </u>	YACO	Hydrophytic
2.			mulada www.esmujuwww	Vegetation Present? Yes No
% Bare Ground in Herb Stratum	<u> </u>	Total Cove	e <i>r</i>	FIGSCHES 169
Remarks:	was a second sec	A700000		

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Sampling Point: 77-5

Profile Description: (Describe to the d	ehm nesasa to docum	ient the	indicator	or contirn	n the absence	or indicators.)	
Depth Matrix	Redox	K Feature					
(Inches) Color (moist) %	Color (moist)	%	Type ¹	Loc2	Texture	Remarks	
0-3 104R 3/1 100	****			Canala .	SIL		
3-12 1046 4/1 100	,	Marie	20.00	accept.	C- L-		
12-24 109R4/, 95		5	C.	(1-7	66	Redox features way	
	**** *********************************			Hiller man and the	- Harris Control of the Control of t	be expression of	
		- Juneal system	- Annual Community		Anna della Carllina anna della Carllina	facent material	
		****	Investigation to a second	***********		- The state of the	
The state of the s		Aim		Approximation and the second		Agent (1994) and the control of the	
¹ Type: C=Concentration, D=Depletion, R	M=Daduad Matrix CC	-Cavara	d or Conto	d Sand Or	nine 2 o	eation: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to a				u cand ca		rs for Problematic Hydric Solis ³ :	
Histosol (A1)	Sandy Redox (S					n Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (-			Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky M	ineral (F	i) (except	MLRA 1)	Very	Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)	Loamy Gleyed N)		, Othe	er (Explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Matrix		• •				
Thick Dark Surface (A12)	Redox Dark Sur		t emis			rs of hydrophytic vegetation and	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark S Redox Depression	•	77)			nd hydrology must be present, s disturbed or problematic.	
Restrictive Layer (if present):	Nedox Deplessi	ons (no)	· · · · · · · · · · · · · · · · · · ·	(4.08);;;;;;;;	T	5 distillace of problematic.	
Type:			r.,.				
Depth (inches):	·				Hydric Soil	Present? YesNo	
The state of the s		,	TO DANIEL MANAGEMENT		1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Suitable Sui	
Remarks: * See profile	lar int		m = /1	- £			
The first the	Ococh 12:01	1 10	8.45	-)			
·				*,	S. 2		
		,		······································	<u> </u>		
HYDROLOGY	and the second s	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		HHR7514		,	
		, , , , , , , , , , , , , , , , , , ,		100 100 100 100 100 100 100 100 100 100	No. of the control of		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; check all that apply				Secon	dary Indicators (2 or more required)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir	ed; check all that apply		es (B9) (ex	kcept .		dary Indicators (2 or more required) Vater-Stained Leaves (B9) (MLRA 1, 2,	
Wetland Hydrology Indicators:	Water-Stain		, , ,	ccept .			
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stain	ied Leavi	, , ,	kcept .	M	ater-Stained Leaves (B9) (MLRA 1, 2,	
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stain MLRA 1	ied Leavi , 2, 4A, a B11)	ind 4B)	kcept .	W	vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stain MLRA 1 Salt Crust (I	ied Leave , 2, 4A, a B11) ertebrate	and 4B) s (B13)	kcept .	N	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stain MLRA 1 Salt Crust (I	ied Leave , 2, 4A, a B11) ertebrate Sulfide Oc	and 4B) s (B13) dor (C1)	•	N	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	ied Leavi , 2, 4A, a B11) ertebrate sulfide Oc nizosphei	and 4B) s (B13) dor (C1) res along l	Living Roo	W D S S S S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)	
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required 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 (Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	Water-Stain MLRA 1 Salt Crust (I Aquatic Invention Hydrogen 8 Oxidized Ri Presence or Recent Iron Stunted or 8 Other (Expl.	ned Leavi, 2, 4A, a B11) ertebrate sulfide Oc nizospher f Reduce Reduction Stressed ain in Re	s (B13) s (B13) dor (C1) res along l d Iron (C4 on in Tilleo Plants (D- marks)	Living Roo) I Soils (C6 I) (LRR A)		Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region APN: 104-261-006 City/County: Petro 1/4/Hum bold+ Sampling Date: 6-25-2020 Project/Site: State: A Sampling Point: TV-4 Applicant/Owner: _ Investigator(s): Section, Township, Range: _ MCS: 6/1 Local relief (concave) convex, none): _______ Slope (%): ______ Landform (hillslope terrace, etc.): Datum: 4534 Subregion (LRR): ___A Soil Map Unit Name: 152-Ben NWI classification: _ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ Are Vegetation Soil or Hydrology Are "Normal Circumstances" present? Yes _ _significantly disturbed? 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? Remarks: De Dressions 1 betimen abandoned road upsinger and 1)e pression VEGETATION – Use scientific names of plants. veso to Led Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species (A) That Are OBL, FACW, or FAC: Total Number of Dominant (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) = Total Cover Sapling/Shrub Stratum (Plot size: 10 × 10 Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species FACU species / C = Total Cover Herb Stratum (Plot size: 10 x 10 UPL species PACI Column Totals: 107 Aira caryophyllea Holcis lana Prevalence Index = B/A = 10 Hydrophytic Vegetation Indicators: MO 5 1 - Rapid Test for Hydrophytic Vegetation FAC 2 - Dominance Test is >50% TAVSXACUM Alleinale FACU 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 97 = Total Cover Woody Vine Stratum (Plot size: 10 > 10) Hydrophytic Vegetation Present? = Total Cover % Bare Ground in Herb Stratum

aven. Cow ples, evidence

Remarks:

S	O	Ì	ı	

Sampling Point: TV- 4

Profile Description: (Describe to the dept Depth Matrix	Redox Features	or or contirm	i ine absence	of indica	tors.)	
(inches) Color (moist) %	Color (moist) % Type	Loc ²	Texture		Remarks	
0-5 104R 5/4 160			2:2	See	Se low	
5-11 104 R 3/2 100	All Managare		71	>K	DEIRRY	
11 10 1.1 111	The State of the S	Milita Antinia	<u></u>	ATS		
11-18 1046 4/1 100		\$600mm		SBK	Structure Clay Som	e incie
		Management		decision of the second of the	j	
Type: C=Concentration, D=Depletion, RM=F Hydric Soil Indicators: (Applicable to all L	Reduced Matrix, CS=Covered or Coa	ited Sand Gra		ation: PL	Pøre Lining, M	=Matrix.
Name of the second seco	_ Sandy Redox (S5)				blematic Hydr	c Sons:
Histic Epipedon (A2)	Stripped Matrix (S6)			Muck (A1	u) iterial (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (exce	ot MLRA 1)			nenar (172) Park Surface (T	F12\
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F2)	F V 220 (3) 1 /2			in Remarks)	: (<i>‰)</i>
Thick Dark Surface (A12)	Redox Dark Surface (F6)		3Indicato	s of hydro	phytic vegetation	n and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)				yy must be pres	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)				or problematic	
Restrictive Layer (if present):	- Waltersampy apparent -		***************************************			1
Type:	reación.		Hydric Soil I	Present?	Yes	No.
Remarks: Top of profile Sediment basin, son	ents relatively in	ive	HOW EX	ie pt	duc 5 ovents	rain
YDROLOGY						
Vetland Hydrology Indicators:		ACA-90-page-2-111111999; R.C. All Academic Acade				
Primary Indicators (minimum of one required; o	heck all that apply)		Second	dary Indica	tors (2 or more	required)
Surface Water (A1)	Water-Stained Leaves (B9) (except			d Leaves (B9)	
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	*		4A, and 4		
_ Saturation (A3)	Salt Crust (B11)				terns (B10)	
Water Marks (B1)	Aquatic Invertebrates (B13)				Vater Table (C:	2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Sa	turation Vi	sible on Aerial I	magery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along	Living Roots	(C3) <u>}</u> Ge	omorphic i	Position (D2)	/
Algal Mat or Crust (B4)	Presence of Reduced Iron (C			allow Aqui		
_ Iron Deposits (B5)	Recent Iron Reduction in Tille	d Soils (C6)		C-Neutral		
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D	1) (LRR A)			ounds (D6) (LF	RR A)
 Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) 	Other (Explain in Remarks)		Fro	st-Heave i	-lummocks (D7)
leld Observations:	and the same of th					***************************************
urface Water Present? Yes No	V Death (Inches):					/
/ater Table Present? Yes No	Depth (inches):					
aturation Present? Yes No	Depth (inches):	Matlan	d Hydrology	Procento	Vασ	No. V
ncludes capillary fringe)				i igagiil (169	(40 ×
escribe Recorded Data (stream gauge, monito	ring well, aerial photos, previous ins	pections), if a	vailable:		and the second s	
Remarks: D II I	nout, drive the		da	7		

	r constant of the constant of	Mountains, Valleys, and Coast Region
Project/Site: APN: 104-, 261-006	City/County:	trolia Humbold+ Sampling Date: 6-25-2020
Applicant/Owner: Parh waker, LLC		State: CA Sampling Point: TP-5
	Section, Township	p, Range: 580,715, RZW
Landform (hillistope, terrace, etc.): hillstops	Local relief (conc	ave, convex/none): Now Slope (%): /
		Long: 124.328600 Datum: W6584
Soil Map Unit Name: 152 - Benbaw		NWI classification:
Are climatic / hydrologic conditions on the site typical for		,
Are Vegetation, Soil, or Hydrology,		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answers in Remarks.)
*		
		int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes		npled Area
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	110	
Wetland Hydrology Present? Yes Remarks:		
·		
VEGETATION – Use scientific names of pl	ants.	
The second secon	Absolute Dominant Indica	
Tree Stratum (Plot size:)	% Cover Species? Statu	reamber of Dominian Operator
1	egyptyress. Sustania deletera anno antico del del que a quantifica de la companya del	That Are OBL, FACW, or FAC: (A)
2.	Abordone Marinophilary prominentially beautiful and the state of the s	Total Number of Dominant Species Across All Strata: (B)
1 Maryanan	WATER THE	Species Across All Strata: (B)
	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: <u>//クメ 1/ク</u>)	r 10100 30001	Prevalence Index worksheet:
1. B. Pilularis	<u> </u>	Total % Cover of: Multiply by:
2.	AMERICAN CONTRACTOR OF PROSTRESS AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS AND AN	OBL species C2 x1= C
3.	Action and the second s	FACW species 5 x 2 = 10
4.	Manual Ma	FAC species 15 x3 = 45
5.	The state of the s	FACU species 65 x4= 760
Herb Stratum (Plot size: 1/2 > 10)	<u>CO</u> = Total Cover	UPL species 20 x 5 = 400
1. Anthoxanthum ederation	40 / PAC	(B) Column Totals: 155 (A) 115 (B)
2. Desthonia california	15 1/ FA	Prevalence Index = B/A = 41,6
3. Huena barbata	75 V N	
4. Plantago lancealida		
5. Seneció Jacobaca	<u> </u>	U = 2 - Dominance Test is >50%
6. Care x subbracteata	G FAL	0 1107601100 1100710
7. Lineans Grenne	<u> </u>	
8. Tavaxacum seticinale		data in Remarks or on a separate sheet)
9.	Principal Princi	5 - Wetland Non-Vascular Plants ¹
10.	Supergraphy Assessment State Control of the State C	Problematic Hydrophytic Vegetation¹ (Explain)
11.		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	<u>lbs</u> = Total Cover	
1		Hydrophytic /
2.		Vegetation
	= Total Cover	Present? Yes No V
% Bare Ground in Herb Stratum	WEST CONTROL OF THE STATE OF TH	
Remarks:		

Sampling Point: TP-5

Profile Description: (Describe to the depth n	ceded to documen		MIONEOL		i tile anselice di	and the state of t
Depth Matrix	Redox F	eatures				
	Dolor (moist)	%	Type	Loc ²	Texture	Remarks
0-3 104R 3/2 100					Los	
3-10 104R4/E 100	and the same of th				5,.6	
10-18 LOGR 4/1 100		**************************************	x	*************************	Ch.	Rimeron constitutivitativi (1914-1915) (1914-1915) (1914-1915) (1914-1915) (1914-1915) (1914-1915) (1914-1915)
18-22 1042 m/ MONTE	10465/4	<u>5</u>	<u> </u>	M	Col	
22- RESILSAL	Marie	***************************************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Willy the company of the transfer of the company of
Protectional and appropriate and the second and the					H	
Action to the state of the stat	Trouble HAMATAY		······································		with the state of	San Change Control of the Control of
True Coconstitution Deficient DMcCool	hand Makey Com		nn Conto	d Cond Ce	ainn 21 annti	on: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Rec Hydric Soil Indicators: (Applicable to all LRF				u oanu Gi		for Problematic Hydric Soils ³ :
		,6,1010	,			luck (A10)
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (\$5) Stripped Matrix (\$6	2)			***************************************	arent Material (TF2)
Black Histic (A3)	Loamy Mucky Mine	•	lavaant	/b A <3 188		hallow Dark Surface (TF12)
			(except	MITTEN 1)		Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Mat				Oner (explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3	•			31 41	ad tarrelinearly dia you and allow and
	Redox Dark Surfac	-				of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surf)			hydrology must be present,
	Redox Depressions	s (F8)	······		unless d	isturbed or problematic.
Restrictive Layer (if present):						/
Type: KOCK						./
Depth (inches): 22					Hydric Soil Pr	esent? Yes No
Remarks:		- Interior comments				
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T.						
HYDROLOGY	Managama palaiding a landa a sa	MANAGEMENT PROJECTION OF THE PROPERTY OF THE P	Way	a the trick of the	and the latest to the latest t	
HYDROLOGY Wetland Hydrology Indicators:						
Wetland Hydrology Indicators:	eck all that anniv)	A 4444		e control of the cont	Seconda	ry Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; ch			(DO) (a)	and the second s	100000000000000000000000000000000000000	ry Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1)	Water-Stained			cept	Wate	er-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2)	Water-Stained MLRA 1, 2	, 4A, an		cept	Wate	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1)	Water-Stained MLRA 1, 2 Salt Crust (B1	, 4A, an 1)	d 4B)	cept	Wate 4. Drain	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2)	Water-Stained MLRA 1, 2	, 4A, an 1)	d 4B)	cept	Wate 4. Drain	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained MLRA 1, 2 Salt Crust (B1	, 4A, an 1) ebrates	d 4B) (B13)	cept	Wate 4. Drain Dry-	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize	, 4A, an 1) ebrates îde Odo osphere	(B13) or (C1) as along I	iving Root	Wate Drain Dry Satu ts (C3) Geor	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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 MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R	, 4A, an 1) ebrates ide Odo osphere educed	(B13) or (C1) s along t Iron (C4	Living Root	Wate Drain Dry Satu ts (C3) Georg	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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 MLRA 1, 2 MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re	, 4A, an 1) ebrates ide Odo osphere educed eduction	(B13) or (C1) as along the line (C4) as in Tilled	Living Roof) Soils (C6)	Wate A Drain Dry Satu s (C3) Geod Shal FAC	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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 MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P	(B13) or (C1) os along to lron (C4) o in Tilled	Living Roof) Soils (C6)	Wate A Drain Satu Satu Shal FAC Rais	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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)	Water-Stained MLRA 1, 2 MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P	(B13) or (C1) os along to lron (C4) o in Tilled	Living Roof) Soils (C6)	Wate A Drain Satu Satu Shal FAC Rais	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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)	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P	(B13) or (C1) os along to lron (C4) o in Tilled	Living Roof) Soils (C6)	Wate A Drain Satu Satu Shal FAC Rais	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations:	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain	, 4A, an 1) ebrates fide Odo osphere educed eduction essed P	(B13) or (C1) s along t lron (C4 o in Tilled lants (D1 arks)	Living Roof) Soils (C6)) (LRR A)	Wate A Drain Satu Satu Shal FAC Rais	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem	(B13) or (C1) os along t lron (C4) o in Tilled larts (D1	Living Roof) Soils (C6)) (LRR A)	Wate A Drain Satu Satu Shal FAC Rais	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations:	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem	(B13) or (C1) os along t lron (C4) o in Tilled larts (D1	Living Roof) Soils (C6)) (LRR A)	Wate A Drain Satu Satu Shal FAC Rais	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem	(B13) or (C1) os along to lron (C4) of Tilled llants (D1) arks)	Living Roof) Solls (C6)) (LRR A)	Wate 4. Drain Dry- Satu Shal FAC Rais Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain Depth (inches	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem s):	(B13) or (C1) os along L lron (C4) o in Tilled elants (D1) arks)	Living Roof) Soils (C6)) (LRR A)	Wate 4. Drain Dry- Satur Shal FAC Rais Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain Depth (inches	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem s):	(B13) or (C1) os along L lron (C4) o in Tilled elants (D1) arks)	Living Roof) Soils (C6)) (LRR A)	Wate 4. Drain Dry- Satur Shal FAC Rais Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain Depth (inches Depth (inches	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem s): s): os, prev	(B13) or (C1) os along to long (C4) on Tilled (Interest) or (C4)	Living Roof) Soils (C6)) (LRR A)	Wate 4. Drain Dry- Satu Shal FAC Rais Fros Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain Depth (inches Depth (inches	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem s): s): os, prev	(B13) or (C1) os along to long (C4) on Tilled (Interest) or (C4)	Living Roof) Soils (C6)) (LRR A)	Wate 4. Drain Dry- Satu Shal FAC Rais Fros Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain Depth (inches Depth (inches	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem s): s): os, prev	(B13) or (C1) os along to long (C4) on Tilled (Interest) or (C4)	Living Roof) Soils (C6)) (LRR A)	Wate 4. Drain Dry- Satu Shal FAC Rais Fros Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che 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) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain Depth (inches Depth (inches	, 4A, an 1) ebrates ide Odo osphere educed eduction essed P in Rem s): s): os, prev	(B13) or (C1) os along to long (C4) on Tilled (Interest) or (C4)	Living Roof) Soils (C6)) (LRR A)	Wate 4. Drain Dry- Satu Shal FAC Rais Fros Fros	er-Stained Leaves (B9) (MLRA 1, 2, A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9) morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)

		ountains, Valleys, and Coast Region
Project/Site: APN: 104- 261-006	City/County:	rolia Humbold+ Sampling Date: 6-25-2
		State: GA Sampling Point: TP-C
Investigator(s): Grea Dav. 5		
		re, convex, none): Contave Slope (%): 5
		Long: -174.378397 Datum: WS8
Soil Map Unit Name: 152- Ben bow		NWI classification: Nove
Are climatic / hydrologic conditions on the site typical for the		
Are Vegetation, Soil, or Hydrology		re "Normal Circumstances" present? Yes No/
Are Vegetation, Soil, or Hydrology		needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling poin	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	
Hydric Soil Present? Yes		8.7
Wetland Hydrology Present? Yes	No / within a Wet	land? resNo
Remarks:		
VECETATION Line adjustific marries of plan	and the state of t	
VEGETATION – Use scientific names of plan		Declarate Testurabetest.
Tree Stratum (Plot size:)	Absolute Dominant Indicato % Cover Species? Status	
1.	жений минитического — — — — — — — — — — — — — — — — — —	That Are OBL, FACW, or FAC:(A)
2.	was annippy	Total Number of Dominant
3,		Species Across All Strata: (B)
4.		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1.	- make halosson through some segment of the segment	Prevalence Index worksheet:
2.	MATTER STATE OF THE STATE OF TH	Total % Cover of: Multiply by: OBL species
3,		FACW species O x2= O
4.	was and the state of the state	FAC species 25 x3 = 7-5
5,		FACU species 35 x 4 = 140
Herb Stratum (Plot size: 16 x 10)	= Total Cover	UPL species <u>40</u> x 5 = <u>200</u>
1. Halers lantas	25 V SAC	Column Totals: 100 (A) 415 (B)
2. Funex acetocella	LAU EAU	Prevalence Index = B/A = 4.15
3. Anthoxanthum oderatum	10 FALL	Hydrophytic Vegetation Indicators:
4. Dactylis glomerata	5 FALL	Trapia receiving a regulation
6. Avena Gartada	FACU 5 NI	2 Commence rearis 20076
6. Athena Cartada 7. Eschelzia californica	NI NI	3 - Prevalence Index is ≤3.01
8. Bradiaca terrestris		 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
a. Chroserus echinatus	75 V NI	5 - Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation¹ (Explain)
11,	the themselves and the control of th	Indicators of hydric soil and wetland hydrology must
Mondy Vino Stratum (Diot circum)	Lタン = Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:) 1		l un de la constante de la con
2	ACADEMIC CONTROL OF THE CONTROL OF T	- Hydrophytic / Vegetation
	= Total Cover	Present? Yes No V
% Bare Ground in Herb Stratum		
Remarks:		

*	~	ä	8	
		а	1	

Sampling Point: TP-6

Profile Description: (Describe to the depth needed to do	ument the in	dicator	or confirm	the absence	of indicators.)
	dox Features	1		4gm	Day was and as
(inches) Color (moist) % Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6 104RZ/1 100 -	***************************************	9500		Or Lon	gravelly
6-24 lone 2/1 100 -	******	Name .	Wangallandhaan an in the same	Jar 6	very gravelly I ham
				**3	SBK Strootine
					(weak)
Management (COUNTESTANCE of project of the state of the s				Annual An	- Marin
XIII WARRING AND	Marine Committee of	www.autorns.com		restable w	pinital and the state of the st
A CONTROL OF THE CONT			CONTRACTOR OF THE PARTY OF THE	VALUE OF THE PARTY	Name of the state
MATERIAL STATE OF THE STATE OF		- physical recommendates	onn unusur duya	PANAMETER	
				2.	Augustation and the second sec
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix,			d Sand Gr		cation: PL=Pore Lining, M=Matrix. ors for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless oth Histosol (A1) Sandy Redox		3.)			n Muck (A10)
Histosol (A1) Sandy Redox Histic Epipedon (A2) Stripped Mati				/	Parent Material (TF2)
,	y Mineral (F1)	(except	MLRA 1)		/ Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Loamy Gleye	d Matrix (F2)			Oth	er (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Mat				ä	
Thick Dark Surface (A12) Redox Dark \$					ors of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dar Sandy Gleyed Matrix (S4) Redox Depre)			nd hydrology must be present, s disturbed or problematic.
Sandy Gleyed Matrix (S4) Redox Depre Restrictive Layer (if present):	3310113 (1 0)				o victoria o, provontano
Туре:					
Depth (inches):				Hydric Soil	Present? Yes No
	1 10	Tr i	1 ,	l	3 5000
Remarks: Excavation of test pit : 50il seems well drained	was di	Hicu	t due	- to 0	imount of grauls,
Soil seems mall do					2
solves agu agaired					
HYDROLOGY					
Wetland Hydrology Indicators:			- Carrell		A CANADA
Primary Indicators (minimum of one required; check all that ap	(vla			Secor	ndary Indicators (2 or more required)
	tained Leaves	(B9) (ex	cept		/ater-Stained Leaves (B9) (MLRA 1, 2,
Lillah Matar Table (42)	A 1, 2, 4A, an		•		4A, and 4B)
Saturation (A3) Salt Cru				D	rainage Patterns (B10)
	Invertebrates				ry-Season Water Table (C2)
***************************************	n Sulfide Odo			46600	aturation Visible on Aerial Imagery (C9)
	I Rhizosphere				eomorphic Position (D2)
Algal Mat or Crust (B4) Presenc	e of Reduced				hallow Aquitard (D3)
All and a second	ron Reduction				AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Surface Soil Cracks (Bb) Stuffled	or Stressed P) (LRR A)		rost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B7) Other (E Sparsely Vegetated Concave Surface (B8)	xplain in Rem	iaiks)		***************************************	TOSE TOUR (TOTAL TOURS (D7)
Field Observations:		***************************************			-
Surface Water Present? Yes No Depth (inches):				/
	inches):				
	inches):			nd Hydrolog	y Present? Yes No
(includes capillary fringe)				f mirallahlar	
Describe Recorded Data (stream gauge, monitoring well, aeria	ıı pnotos, prev	nous insp	iecuons), I	i avaliable:	
Pamarke:	· · · · · · · · · · · · · · · · · · ·				
Remarks: See "soil" common t from	a be				
2011 Common 1 (15h)	N. Ims				

x			ntains, Valleys, and Coast Region
Project/Site: APN: 104-261-006	City/Co	ounty: Retro	1/4/Humbold+ Sampling Date: 625-28
Applicant/Owner: Daihma/Cr. LLC			State: Sampling Point:
Investigator(s): Grey Davis	Sectio	n, Township, Ra	nge: 530, 715, PZW
Landform (Millslope, terrace, etc.): 11115 one Cidso	L Local	relief (concave,	convex, (1019): 1010 Slope (%):
Subregion (LRR):	Lat: 40.3	51171	Long: -124.328963 Datum: W6594
Soil Map Unit Name: 152- Benbew		and the second s	NWI classification: Vano
Are climatic / hydrologic conditions on the site typical for this	time of year? Ye		
Are Vegetation, Soil, or Hydrologys	ignificantly disturb	ed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology 🏒 n	aturally problema	lic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	pling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	· —	is the Sampled within a Wetlar	Area od? Yes No
Remarks: felatively disturbed area excavate to dedur water			er bladders, was able to
VEGETATION – Use scientific names of plan			n 2. 20. 2) (A. 100.)
VEGETATION - Use scientific names of plan		Inant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover Spec		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Anne of the first of the second of the secon	Total Number of Dominant Species Across All Strata: (B)
4.			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Total	at Cover	That Are OBL, FACW, or FAC: (A/B)
1.	New Management		Prevalence Index worksheet: Total % Cover of:Multiply by:
2.		Marian Array Marian	OBL species
3.	***************************************	water the second	FACW speciesO x 2 =O
4.	Amenda Marie		FAC species 8 ×3 = 24
	= Tota	al Cover	FACU species
Herb Stratum (Plot size:)			UPL species $\frac{15}{100}$ $\times 5 = \frac{75}{401}$ (B)
1. Airs caryophyllea	50 V	FACU	and the second s
2 Dactylis Slongerta	15 V	/— FALL	Prevalence Index = B/A =
4. Feetuca persennis		FAC	Hydrophytic Vegetation Indicators:
5. Mantha pulgium	L.	OBL	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test Is >50%
a Lotus corniculation	22	FAL	3 - Prevalence Index is ≤3.0¹
7. Parentucellia Viscosa	1	FAC	4 - Morphological Adaptations ¹ (Provide supporting
8. Taxaxacum officinale	10	<u> FALU</u>	data in Remarks or on a separate sheet)
9.	With the same of t	And the second s	5 - Wetland Non-Vascular Plants ¹
10.	**************************************		Problematic Hydrophytic Vegetation ¹ (Explain) 1Indicators of hydric soil and wetland hydrology must
11	11000 - 7-1-	I Cover	be present, unless disturbed or problematic.
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2.			Vegetation Present? Yes No
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Sampling Point: TP-7

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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or C		ore Lining, M=Matrix.
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Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (ex		rk Surface (TF12)
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Depleted Below Dark Surface (A11) Depleted Matrix (F3)		
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Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology unless disturbed o	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present):	uniess disturbed o	or problematic.
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Appendix C

Plant Species List

Rainmaker Wetland Delineation Report

July 2020

Species	Common Name	Origin	Stratum	Indicator Status
Aira caryophyllea	Silvery hairgrass	Naturalized	Herb	FACU
Anthoxanthum oderatum	Sweet Vernal Grass	Invasive	Herb	FACU
Avena barbata	Slim oat	Invasive	Herb	NI
Baccharis pilularis	Coyote brush	Native	Shrub	FACW
Brassica nigra	Black mustard	Invasive	Herb	NI
Brodiaea terrestris	Dwarf brodiaea	Native	Herb	NI
Carduus pycnocephalus	Italian thistle	Invasive	Herb	NI
Carex subbracteata	Small bract sedge	Native	Herb	FACW
Cynosurus echinatus	Bristly dogstail grass	Invasive	Herb	NI
Dactylis glomerata	Orchardgrass	Invasive	Herb	FACU
Danthonia californica	California oatgrass	Native	Herb	FAC
Elymus glaucus	Blue wild rye	Native	Herb	FACU
Eschscholzia californica	California Poppy	Native	Herb	NI
Festuca californica	California fescue	Native	Herb	FACU
Festuca perennis	Italian rye grass	Invasive	Herb	FAC
Heracleum maximum	Cow parsnip	Native	Herb	FAC
Holcus lanatus	Common velvetgrass	Invasive	Herb	FAC
Juncus patens	Spreading rush	Native	Herb	FACW
Lotus corniculatus	Slender bird's foot trefoil	Naturalized	Herb	FAC
Mentha pulegium	Pennyroyal	Invasive	Herb	OBL
Parentucellia viscosa	Yellow glandweed	Invasive	Herb	FAC
Plantago lanceolata	English plantain	Invasive	Herb	FACU
Rubus ursinus	California blackberry	Native	Herb	FAC
Rumex acetosella	Common sheep sorrel	Invasive	Herb	FACU
Senecio jacobaea	Tansy ragwort	Invasive	Herb	FACU
Taraxacum officinale	Common dandelion	Naturalized	Herb	FACU
Toxicodendron diversilobum	Poison oak	Native	Shrub	FAC
Vicia hirsuta	Hairy vetch	Naturalized	Herb	NI
Rosa canina	Dog rose	Naturalized	Shrub	NI

Appendix D

Photo Documentation

Rainmaker Wetland Delineation Report

July 2020

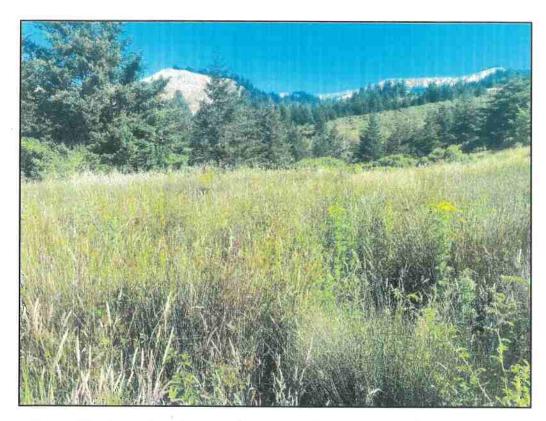


Photo 1. View of Wetland #1 looking northeast towards TP-1 and the decommissioned road.

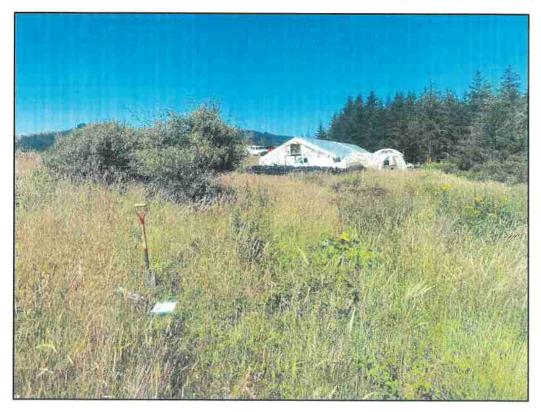


Photo 2. View of TP-2 sampling location with Wetland #1 in the center right frame.

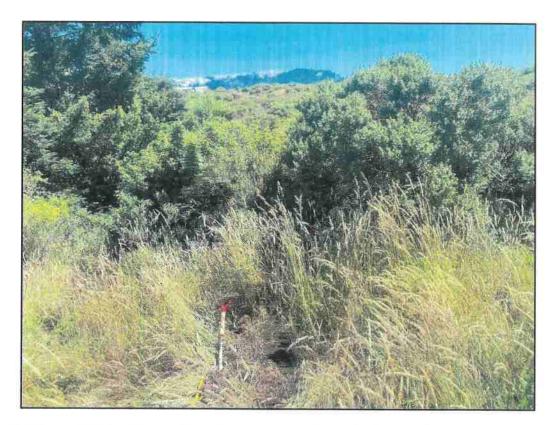


Photo 3. View of TP-3 with the Class III watercourse in the background.

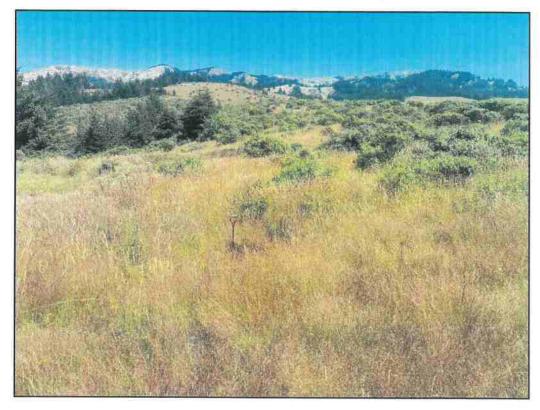


Photo 4. View of TP-4 (center frame), which is located in a small depressional area.

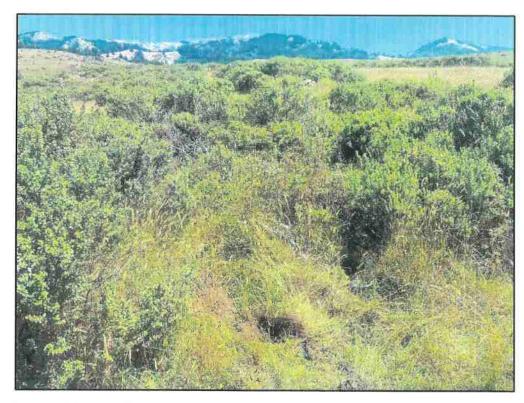


Photo 5. View of TP-5 within the coyote brush scrub habitat upslope of Wetland #1.

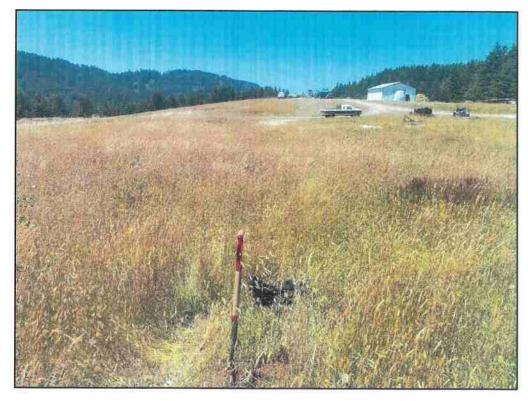


Photo 6. View of TP-6 within a primarily invasive species grassland. Note the intersection of Access Road #1 and Access Road #2 at the truck.

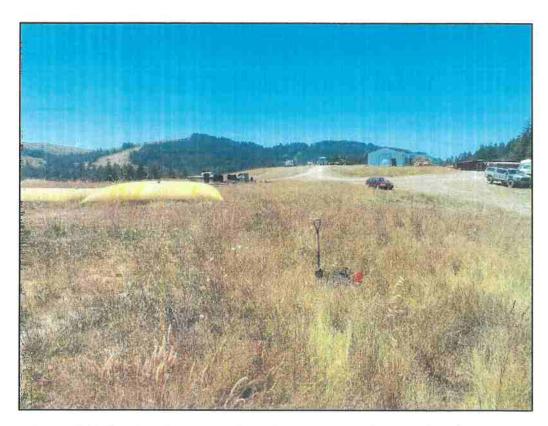


Photo 7. View of TP-7 within the proposed grading area, note the water bladders in the left frame.