Wetland Delineation for the 35th and Oak Street Site in Florence, Oregon

(Township 18 South, Range 12 West, Section 22AA, Tax Lot 1100, 1200 and portion of the Oak Street Right-of-Way)

6-28-25

Prepared for

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PHS Project Number: 7127

June 28, 2021



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I. INTRODUCTION

Pacific Habitat Services, Inc. (PHS) conducted a wetland delineation at located at the intersection of 35th and Oak Street in Florence, Oregon (Township 18 South, Range 12 West, Section 22AA, Tax Lot 1100, 1200 and portion of the Oak Street Right-of-Way (ROW)) on April 8, 2021. This report presents the results of PHS's delineation of the study area. Figures, including a map depicting the location of the study area are in Appendix A. Data sheets documenting on-site conditions are provided in Appendix B. Ground-level photos of the site are included in Appendix C. A discussion of the wetland delineation methodology (for the client) is provided in Appendix D.

II. RESULTS AND DISCUSSION

A. Landscape Setting and Land Use

The approximately 16- acre study area is located west of Oak Street and north of 35th Street in the City of Florence. This part of Florence is composed of dense residential development and a recreational golf course. A large percentage of open space and undeveloped lots in this area, including the study area, contain patchy forest with thick understories dominated by shore pine (*Pinus contorta*, FAC), salal (*Gaultheria shallon*, FACU), evergreen huckleberry (*Vaccinium ovatum*, FACU), and various weedy forbs and perennial grasses. The topography is gently sloping southeast with moderate dune slopes in the northwest corner, abutting an off-site City water facility and golf course. Elevations onsite range from approximately 50 feet to 80 feet according to the Florence, Oregon-7.5-minute topographic quadrangle map of Oregon (USGS, 2021).

Soils within the study area are typically light olive/yellowish brown sands. Mapped soil units within the study area include Dune land and Yaquina loamy fine sand (hydric) (USDA, 2021, Figure 4).

B. Site Alterations

The study area currently includes a cleared mowed lawn area bordering the 35th Street ROW to the south, as well as a mowed lawn area abutting properties bordering the east site boundary. There is a cleared pedestrian path running east to west along the northern property boundary, as well as several heavily utilized footpaths and encampments throughout the site.

C. Precipitation Data and Analysis

Table 1 compares the average monthly precipitation at the nearest Natural Resource Conservation Service's (NRCS) WETS station (HONEYMAN STATE PARK, OR) to the observed monthly precipitation at the FLORENCE 1.1 N, OR weather station in the three months prior to PHS's April 8, 2021, wetland delineation field work.

Table 1: Comparison of average monthly precipitation at the HONEYMAN STATE PARK, OR WETS station to observed monthly precipitation at the FLORENCE 1.1 N, OR weather station prior to the delineation fieldwork.

		30% Chan	ce Will Have		Percent of Normal	
Month 2021	Average Precipitation*	Less Than Average	More Than Average	Observed Precipitation**		
January	10.4	6.9	12.46	10.44	100	
February	9.23	6.57	10.93	8.06	87	
March	8.83	6.58	10.34	4.14	47	

^{*}NRCS WETS Table (HONEYMAN STATE PARK, OR) (https://www.wcc.nrcs.usda.gov/climate/navigate_wets.html)

**Monthly Total Precipitation (FLORENCE 1.1 N, OR) (https://www.wcc.nrcs.usda.gov/climate/navigate_wets.html)

Total observed precipitation for the water year up to the month of the field work (October 2020 through March 2021) was 41.98 inches, which is 82% of normal compared to the last twenty years of WETS station data across the same time period. Approximately 0.6 inches of precipitation was recorded during the two weeks prior to the field investigation, and 0.02 inches on the day of field work. Precipitation levels were considered adequate for determining the presence or absence of wetlands within the study area.

D. Methods

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The study area was investigated for wetland/waters based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation in accordance with the Routine On-site Determination, as described in the Corps of Engineers Wetland Delineation Manual, Wetlands Research Program Technical Report Y-87-1 ("The 1987 Manual") and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region.

Several excavations were made across the site and examined for wetland conditions; however, no evidence of wetlands was observed. Data collection included the documentation of existing vegetation and the excavation of shallow holes to observe potential evidence of hydric soils and/or seasonally saturated conditions. Three sample points were recorded at locations of lowest topography and at locations where wetlands were previously mapped (WD00-485). These pits were examined for potential wetlands and displayed no evidence of characteristic wetland soils or hydrology. These previously mapped wetland areas contained some redoximorphic features in a high chroma matrix not meeting criteria for sandy redox (S5), or any other sandy soil criterion. Hydric soil was present at the location of sample point 3 solely based on the occurrence of a depleted matrix- however, the soil texture was sand and the hue and chroma were not representative of a depleted matrix, but rather silica-rich sand composition. Based upon the results of our assessment of the study area, the absence of potentially jurisdictional wetlands and waterways was confirmed.

E. Description of all Wetlands and Other Waters

PHS identified no potentially jurisdictional wetlands or waters of the state/U.S. within the study area.

F. Deviation from Local Wetland or National Wetland Inventories

The study area is within the Local Wetlands Inventory (LWI) map extent for the City of Florence (Figure 3A). The LWI displays four potential wetlands within the central study area, which align with an earlier delineation conducted in 2000 (WD00-485). The discrepancy is likely due to a reduction of hydrology on site, possibly from increasing development or an increase in encampment/foot traffic within the study area. At the time of the delineation, there was no distinct change in a topographic gradient or slope that would allow water to be retained for a long enough hydroperiod to induce wetland conditions.

G. Mapping Method

PHS placed the sample point locations on an aerial map in the field utilizing GPS. The sample point accuracy is plus or minus 3 feet. Tax lots were obtained from the Oregon Comprehensive Plan Map (ArcGIS.com), which have an accuracy of plus or minus 3 feet. Contours were obtained from the Oregon LiDAR Consortium and have an accuracy of plus or minus 3 feet.

H. Additional Information

An original wetland delineation (WD00-485) was conducted on site and mapped four wetland polygons shown on Figure 6. Another wetland delineation (WD10-0057) was conducted on site in 2010 by Daniel Evans, which evaluated wetland polygons mapped in 2000 and confirmed that wetlands were no longer present on site.

I. Results and Conclusions

PHS walked the entire study area to investigate the potential for wetland conditions on site. No potentially jurisdictional wetlands or waters of the state/U.S. were identified. Overall upland conditions are characterized by sample points 1-5 in Appendix B.

J. Required Disclaimer

This report documents the investigation, best professional judgment and conclusions of the investigators. It is correct and complete to the best of our knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.

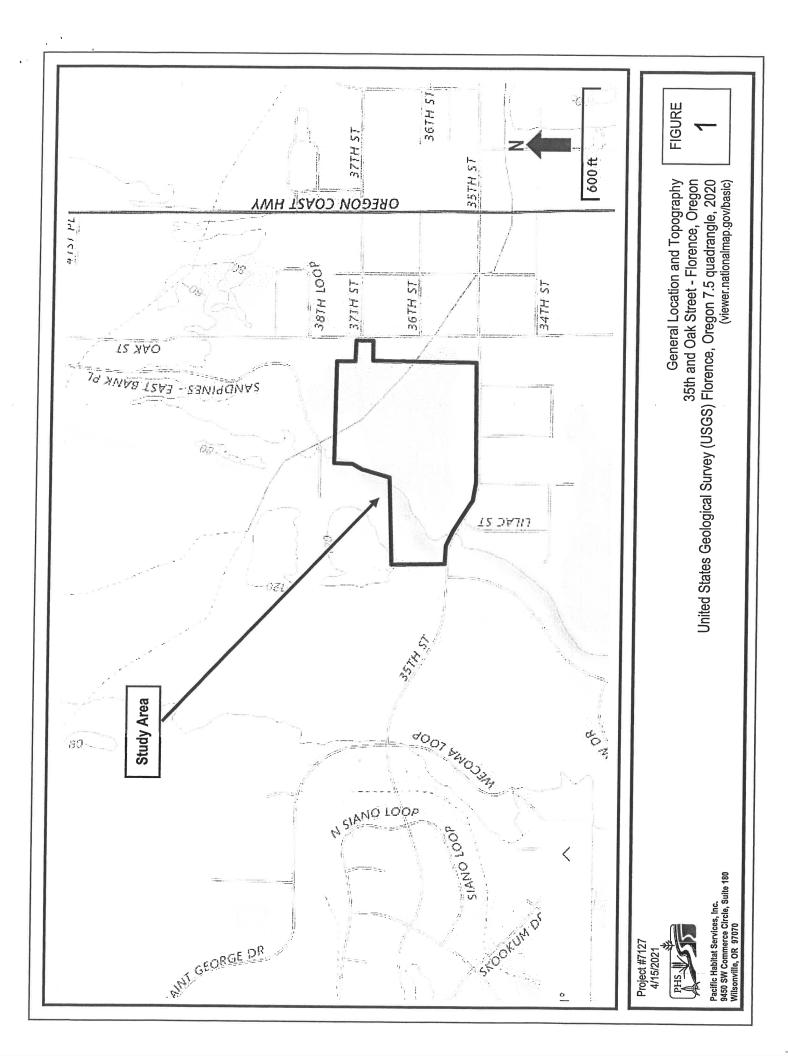
III. REFERENCES

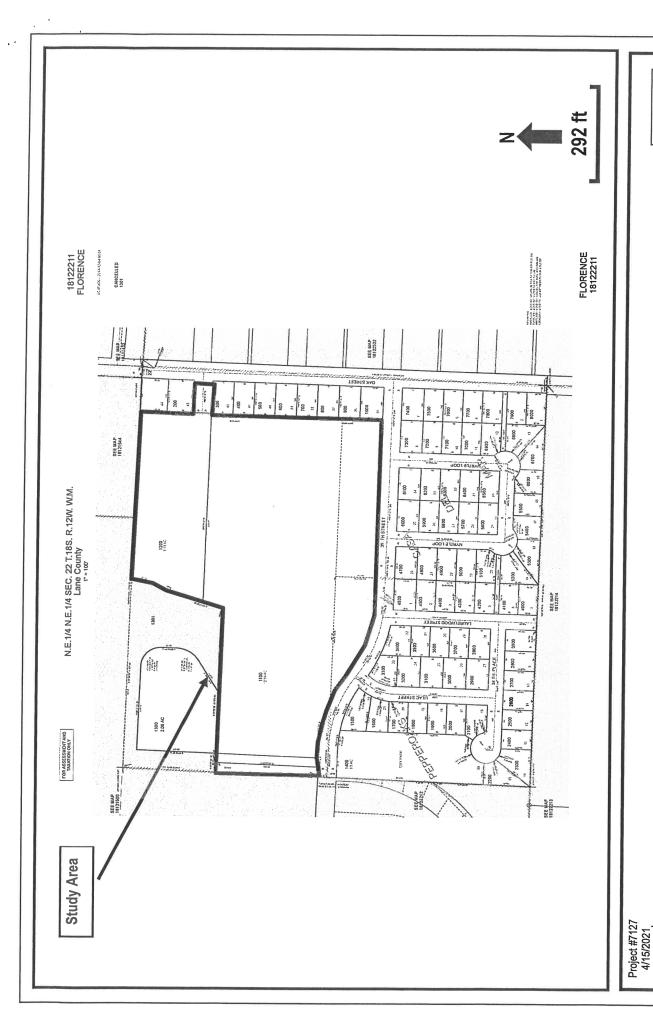
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Appendix A

Figures







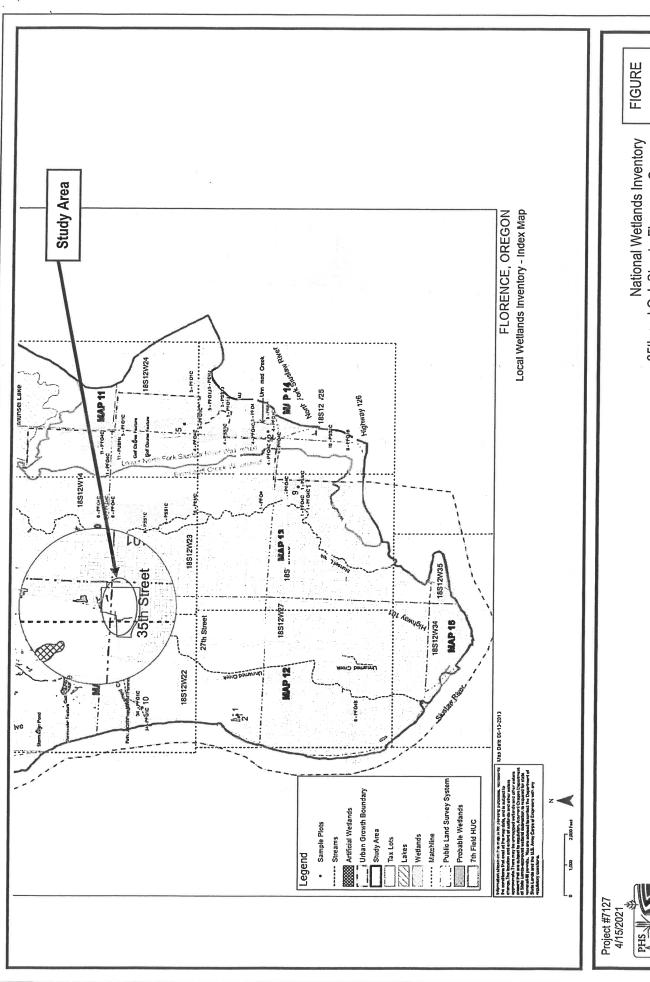
Tax Lot Map 35th and Oak Street - Florence, Oregon The Oregon Map (ormap.net)

FIGURE

2

PHS

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070



35th and Oak Street - Florence, Oregon United States Fish and Wildlife Service, Online Wetland Mapper V2, 2020



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070



NWI - 7127

Study Area



National Wetlands Inventory (NW) This page was produced by the NW mapper

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Riverine

Other Lake

Project #7127 4/15/2021

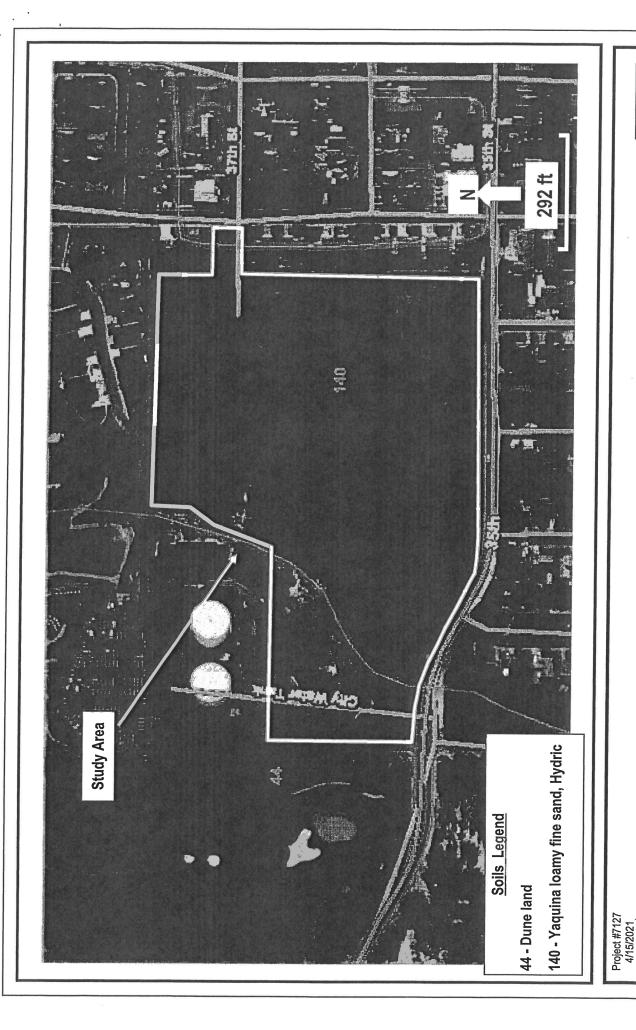


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35th and Oak Street - Florence, Oregon United States Fish and Wildlife Service, Online Wetland Mapper V2, 2020

FIGURE

National Wetlands Inventory



35th and Oak Street - Florence, Oregon Natural Resources Conservation Services, Web Soil Survey, 2020 (websoilsurvey.sc.egov.usda.gov)

FIGURE

Soils

4



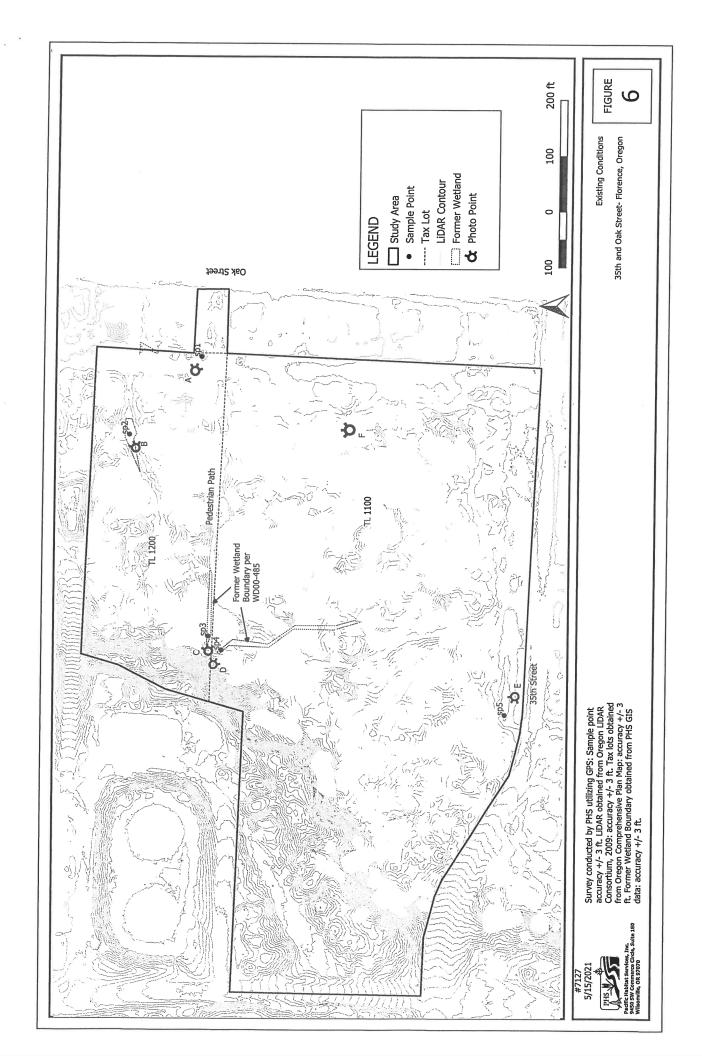
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FIGURE Aerial Photo 35th and Oak Street - Florence, Oregon GoogleEarth, 2021

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Appendix B

Wetland Determination Data Sheets



PHS#	1
WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region	

35th and Oak	St	City/County:	F	Florence/Lane		Sampling Date:	4/8/2	2021
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prolonged satura	ation/inundat	ion compared t	o adjacent ar	nd off-site wetla	ınd areas e	xamined.		
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Redox Depressions (FB) Problematic.	s	Sandy Mucky Mineral (S1)		Depleted Da	ark Surface (F7)			
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	HYDROLOG Wetland Hyd Primary Indica S H S O In In S S Field Observa	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) inft Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) unface Soil Cracks (B6) undation Visible on Acoarsely Vegetated Corations:	one require i) iiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	y (B7) ace (B8)	that apply) Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S Other (Expla	d 4B) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (in in Remarks)	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	
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Remarks:

1

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

Project/Site:	35th and Oak S	it	City/County:	F	lorence/Lane		Sampling Date:	4/8/	2021
Applicant/Owner:	Mike Johnson Con	struction				State:	OR	Sampling Point:	2
Investigator(s):	CM/JT		Section, To	wnship, Range:		Section 2	2, Township 18	_	
Landform (hillslope, to	errace, etc.:)	Slope	_	Local relief (co	oncave, convex,		Concave	Slope (%):	2
Subregion (LRR):	LRR A		Lat:	43.99		Long:	-124.10529	Datum:	WGS84
Soil Map Unit Name:			— oamy fine sand			NWI Classi			WG304
	c conditions on the site t			Yes				None	
Are vegetation			-		-	No		lain in Remarks)	
		drology	_significantly dist				s" present? (Y/N)	Y	
Are vegetation	Soil or Hy	drology	naturally probler	natic? If neede	d, explain any ar	swers in Rema	arks.)		
SUMMARY OF F	INDINGS - Attac	h site map	showing sam	nolina point	locations. 1	transects. i	important feat	ures etc	
Hydrophytic Vegetatio		No		1			portant roat	4100, 000.	
Hydric Soil Present?	Yes	No		Is Sampled A		Yes		No. V	
Wetland Hydrology Pr		No		a Wetla	nd?	165		No X	
Remarks: Precipitation level	s are below normal	in the last m	onth however	: cocondany k	andrology ind	iostoro en d/	or buddin östler		
defined in areas o	f prolonged saturati	ion/inundation	on compared to	adjacent an	id off-site wet	icators and/	or nyunc sons a examined.	and vegetation a	are well-
	Jse scientific nan								
VEGETATION	Joe Scientific Hall	absolute	Dominant	Indicator	Dominance	Test works	hoots		
		% cover	Species?	Status	Dominance	: Test Works	neet.		
Tree Stratum (plot s	size: <u>30</u>)				Number of Do	minant Species	s		
1 Pinus contorta		30	X	FAC	That are OBL,	FACW, or FAC	C:	2 (/	A)
2									
3					Total Number	of Dominant			
4					Species Acros	s All Strata:		(E	3)
		30	= Total Cover						
Sapling/Shrub Stratum	(plot size: 15)			Percent of Dor	minant Species	;		
1 Gaultheria shal	lon	60	X	FACU	That are OBL,	FACW, or FA	C:	50% (A	VB)
2 Vaccinium ovat	tum	30	X	FACU					•
3 Rhododendron	macrophyllum	20	-	FACU	Prevalence	Index Works	sheet:		
4 Pinus contorta		10		FAC	Total % Cover	of	Multiply by:	_	
5 Morella californ	ica	5		FACW	OBL Spe	ecies	x 1 =	0	
		125	= Total Cover		FACW sp	-	x 2 =	0	
Herb Stratum (plot si	ze: 5)				FAC Spe	-	x 3 =	0	
1 Carex sp		20	X	(FAC)	FACU Sp		x 4 =	0	
2		20		(FAC)	UPL Spe Column T	-	0 (A)	0 (2)	
2					Coldiniii	Otals	0 (A)	(B))
A					Prevalen	ce Index =B/A :	= #r	DIV/0!	
5								<i>5.1170.</i>	
6					Hydrophytic	Vegetation	Indicators:		***************************************
7						_	apid Test for Hydro	phytic Vegetation	
8							ominance Test is >		
		20	= Total Cover			3-Pr	evalence Index is ≤	3.0 ¹	
						4-Mc	orphological Adapta	tions1 (provide sup	porting
Voody Vine Stratum	(plot size:)					in Remarks or on a		
1							etland Non-Vascula		
2							elematic Hydrophytic		
		0	= Total Cover		'Indicators of hy disturbed or pro		etland hydrology m	ust be present, unle	ess
					Hydrophytic				
Bare Ground in Herb	Stratum80)			Vegetation		Yes	No	X
emarks:					Present?				1

PHS# 1

Sam	plina	Point
Carri	piiiig	1 OILIL

2
_

(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	2.5Y 5/2	99	2.5Y 5/4	1			Sand	Fine
2-5	2.5Y 5/3	100					Sand	
5-9	2.5Y 5/4	10					Sand	mixed matrix
5-9	10YR 3/6	90					Sand	mixed matrix
9-20	2.5Y 6/4	20					Sand	mixed matrix
9-20	10YR 5/6	80					Sand	mixed matrix
Type: C=Concer	tration. D=Depleti	on. RM=Re	duced Matrix, CS=0	overed o	or Coated Sand			² Location: PL=Pore Lining, M=Matrix.
			all LRRs, unless			7 Orallis.	India	cators for Problematic Hydric Soils ³ :
	tosol (A1)		•		Sandy Redox	(85)		2 cm Muck (A10)
His	tic Epipedon (A2)				Stripped Matr			Red Parent Material (TF2)
	ck Histic (A3)		•		-	Mineral (F1) (e	except MI RA 1)	
	drogen Sulfide (A4)	•		Loamy Gleyer		oxeopt maiot i,	Very Shallow Dark Surface (TF12)
	oleted Below Dark	•	11)		Depleted Mate			Other (explain in Remarks)
	ck Dark Surface (A	•			Redox Dark S	• •		
	ndy Mucky Mineral		*		•	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	ndy Gleyed Matrix		•		Redox Depres	, ,		hydrology must be present, unless disturbed or problematic.
	er (if present):						1	problematic.
toomionive Eag	er (ii present).							
ype:					_			
epth (inches):					-		Hydric Soil Pre	sent? Yes NoX
epth (inches): _ emarks: YDROLOGY							Hydric Soil Pre	sent? Yes NoX
emarks: YDROLOGY	logy Indicators				_		Hydric Soil Pre	
emarks: YDROLOGY /etland Hydroirimary Indicato	logy Indicators ors (minimum of		red; check all tha			Legyes (PO) (F		Secondary Indicators (2 or more required)
emarks: YDROLOGY /etland Hydro	logy Indicators ors (minimum of ace Water (A1)	one requi	red; check all tha			Leaves (B9) (E		Secondary Indicators (2 or more required) Water stained Leaves (B9)
POROLOGY YDROLOGY Yetland Hydroinimary Indicato Surfia High	logy Indicators ors (minimum of ace Water (A1) o Water Table (A2)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4	IB)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
PEROLOGY Vetland Hydroi rimary Indicato Surfi High Satu	logy Indicators ors (minimum of ace Water (A1)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1	1B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
POROLOGY POROLOGY Portland Hydro rimary Indicato Surfa High Satu Wate	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte	4B) 1) ebrates (B13)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Pepth (inches): emarks: PYDROLOGY /etland Hydro rimary Indicato Surfi High Satu Wate Sedi	logy Indicators ors (minimum of ace Water (A1) Water Table (A2) oration (A3) er Marks (B1)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi	B) 1) bbrates (B13) de Odor (C1)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
Pepth (inches): emarks: PYDROLOGY /etland Hydro rimary Indicato Surfi High Satu Wate Sedi Drift	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B2)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	B) 1) bbrates (B13) de Odor (C1)	Except MLRA Living Roots (C3)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2)
Pepth (inches): PMOLOGY Petland Hydroinimary Indicato Surfa High Satu Wate Sedi Drift Algai	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1 [*] Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro	BB) Debrates (B13) Debrates (C11) Despheres along	Except MLRA Living Roots (C3) 4)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
Pepth (inches): emarks: PYDROLOGY /etland Hydro rimary Indicato Surfi High Satu Wate Sedi Drift Algal	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4)	one requi	red; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re	BB) abbrates (B13) de Odor (C1) aspheres along educed Iron (C-	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3)
Pepth (inches): PMOLOGY Vetland Hydro rimary Indicato Surfa High Satu Wate Sedi Drift Algai Iron I	ors (minimum of ace Water (A1) Water Table (A2) wration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4)	one requi	- - - - -		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C- eduction in Ploy assed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
epth (inches): emarks: YDROLOGY /etland Hydro rimary Indicato Surfa High Satu Wate Sedi Drift Algal Iron I Surfa	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B	one requi	- - - - - - ry (B7)		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C- eduction in Ploy assed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Pepth (inches): emarks: PYDROLOGY /etland Hydro rimary Indicato Surfi High Satu Wate Sedi Drift Alga Iron I Surfa Inunc	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B dation Visible on A sely Vegetated Co	one requi	- - - - - - ry (B7)		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C- eduction in Ploy assed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Pepth (inches): emarks: IYDROLOGY /etland Hydro rimary Indicato Surfa High Satu Wate Sedi Drift Algai Iron I Surfa Inunc Span	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) of Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B dation Visible on A sely Vegetated Co	one requi	- - - - - - ry (B7)		Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C- eduction in Ploy assed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
IYDROLOGY Vetland Hydro rimary Indicato Surfa High Satu Wate Sedi Drift Algal Iron I Surfa	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B dation Visible on A sely Vegetated Co	one requi	ry (B7)ace (B8)	Depth (Water stained 1, 2, 4A, and 4 Salt Crust (B1 [*] Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C- eduction in Ploy assed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Pepth (inches): emarks: YDROLOGY /etland Hydroinimary Indicato Surfa High Satu Wate Sedi Drift Algal Iron I Surfa Inunc Span eld Observati rface Water Presentation Presentation	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B3) of Mat or Crust (B4) Deposits (B5) orace Soil Cracks (B dation Visible on A sely Vegetated Co	one requi	ry (B7)	Depth (Water stained 1, 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C- eduction in Plov assed Plants (D in Remarks)	Except MLRA Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Canada Saturation Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Poepth (inches): IYDROLOGY Vetland Hydro rimary Indicato Surfa High Satu Wate Sedi Drift Algai Iron I Surfa Inunc Spar- eld Observatio urface Water Present atturation Present? cludes capillary fring	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B3) of Mat or Crust (B4) Deposits (B5) orace Soil Cracks (B dation Visible on A sely Vegetated Co ons: oracle Yes oracle Yes oracle Yes oracle (A1)	one requi	ry (B7)	Depth (Depth (Water stained 1, 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re Stunted or Stre Other (Explain (inches): inches):	BB) aborates (B13) ade Odor (C1) aspheres along educed Iron (Conduction in Plov assed Plants (Din Remarks) >20 >20	Except MLRA Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
epth (inches): emarks: YDROLOGY /etland Hydro mary Indicato Surfa High Satu Wate Sedi Drift Algai Iron I Surfa Inunc Span eld Observation rface Water Present surration Present? Idudes capillary fring	logy Indicators ors (minimum of ace Water (A1) of Water Table (A2) oration (A3) or Marks (B1) ment Deposits (B3) of Mat or Crust (B4) Deposits (B5) orace Soil Cracks (B dation Visible on A sely Vegetated Co ons: oracle Yes oracle Yes oracle Yes oracle (A1)	one requi	ry (B7) ace (B8) NoX NoX NoX	Depth (Depth (Water stained 1, 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re Stunted or Stre Other (Explain (inches): inches):	BB) aborates (B13) ade Odor (C1) aspheres along educed Iron (Conduction in Plov assed Plants (Din Remarks) >20 >20	Except MLRA Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAND DETE	RMINATI	ON DATA FO	RM - Weste	ern Mountains.	Valleys.	and Coas	PHS#	
Project/Site: 35th and Oak S		City/County:	FI	orence/Lane		ampling Date:		3/2021
Applicant/Owner: Mike Johnson Cor	nstruction				tate: OR		Sampling Point	
Investigator(s): CM/JT			ownship, Range:			ownship 189	S, Range 12W	
Landform (hillslope, terrace, etc.:)	Slop		·	oncave, convex, none):		None	Slope (%):	2
	<u> </u>	Lat:	43.99	<u>86</u> Lo	ong:	124.10645	Datum:	WGS84
Soil Map Unit Name:					/I Classificat	ion:	None	
Are climatic/hydrologic conditions on the site		-	Yes		No X	(if no, expla	ain in Remarks)	
	ydrology			Are "Normal Circum		. ,	Y	
Are vegetation Soil or Hy	ydrology	naturally proble	matic? If needed	d, explain any answers i	in Remarks.)			
SUMMARY OF FINDINGS - Attac	ch site ma	p showing san	nnling noint	locations trans	acts imn	ortant foati	iros oto	
Hydrophytic Vegetation Present? Yes		No X		locations, transc	scis, iiip	ortant leatt	1165, 616.	
Hydric Soil Present? Yes		No X	Is Sampled Ar		Yes		v.	
Wetland Hydrology Present? Yes		No X	a Wetlar	nd?	165		NoX	
Remarks:		- X						
Precipitation levels are below normal defined in areas of prolonged satural	tion/inunda	tion compared t	r secondary h o adjacent an	ydrology indicator d off-site wetland a	s and/or h areas exan	ydric soils a nined.	nd vegetatior	are well-
VEGETATION - Use scientific nar	nes of pla	nts.		E ×		7	2:	3
	absolute % cover	Dominant Species?	Indicator Status	Dominance Test	workshee			
Tree Stratum_ (plot size: 30)	78 COVE	<u>opecies</u> :	Status	Number of Dominant	Species			
1 Pinus contorta	50	х	FAC	That are OBL, FACW	•		2	(A)
2					, 01 1 7 10.	***************************************		(~)
3				Total Number of Dom	inant			
4				Species Across All St	rata:		4	(B)
	50	= Total Cover						
Sapling/Shrub Stratum (plot size: 15)			Percent of Dominant	Species			
1 Gaultheria shallon	40	X	FACU	That are OBL, FACW	•		50%	(A/B)
2 Vaccinium ovatum	40	X	FACU					,
3 Rhododendron macrophyllum	20		FACU	Prevalence Index	Workshee	et:		
4 Morella californica	5		FACW	Total % Cover of		Multiply by:	_	
5				OBL Species		x 1 =	0	
	105	= Total Cover		FACW species		x2=	0	
Herb Stratum (plot size: 5)				FAC Species FACU Species		x3=	0	
1 Carex sp	20	X	(FAC)	UPL Species	-	x4= x5=		
2			(****)	Column Totals	0	— ^0 [–]		(B)
3						‹ · ›		,5)
4				Prevalence Inde	x =B/A =	#D	IV/0!	
5								
6				Hydrophytic Vege	tation Indi	cators:		
7					1- Rapid	Test for Hydrop	hytic Vegetation	
8					2- Domin	ance Test is >5	0%	
	20	= Total Cover				ence Index is ≤		
Woody Vine Stratum (plot size:)				-	-	ions ¹ (provide su	0
1	.′					emarks or on a id Non-Vascula	separate sheet)	
2							r Plants Vegetation ¹ (Ex	nlain)
	0	= Total Cover		Indicators of hydric so				. ,
,				disturbed or problemat		.,	p. 000111, UI	

Hydrophytic Vegetation Present?

Yes_

Remarks:

% Bare Ground in Herb Stratum

80

_	_	٠.	
6	n	11	
u	$\mathbf{\mathbf{\mathbf{\mathcal{C}}}}$	81	-

PHS#	1	

92	mr	dina	Doi	nt.
Sa	ուբ	ning	Poi	m.

2	

Depth	Matrix	•			x Features		ce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/1	100					Sand	20% organic
3-11	10YR 6/2	98	10YR 4/6	2			Sand	20% organic; fine
11-14	2.5Y 5/3	80	10YR 4/6	20			Sand	20% organic; medium
	centration, D=Depletio							² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applic	cable to a	ali LKKS, unies:	s otnerw	•		Indic	eators for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redo			2 cm Muck (A10)
	Histic Epipedon (A2)				Stripped Mat	• •		Red Parent Material (TF2)
E	Black Histic (A3)				Loamy Muck	y Mineral (F1) (e	xcept MLRA 1)	Very Shallow Dark Surface (TF12)
h	Hydrogen Sulfide (A4)				Loamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark S	Surface (A	11)		Depleted Ma	trix (F3)		
Т	hick Dark Surface (A	12)			Redox Dark	Surface (F6)		
8	Sandy Mucky Mineral ((S1)			Depleted Da	rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
s	Sandy Gleyed Matrix (S	S4)			Redox Depre	essions (F8)		problematic.
Restrictive L	ayer (if present):							
уре:					_			
epth (inches)	:						Hydric Soil Pres	sent? Yes No X
lthough the	hue and chroma nd composition v					ix, this sand i		ative of a depleted matrix, but rather a
ilica-rich sa	nd composition v	vith felsi				ix, this sand i		
Ithough the ilica-rich sa IYDROLOC	nd composition v	vith felsi	cs and other lig	jht-color	ed sedime	ix, this sand i		
Ithough the ilica-rich sa IYDROLOC /etland Hyd rimary Indica	nd composition v SY rology Indicators: ators (minimum of ourface Water (A1)	vith felsi	cs and other lig	at apply)	ed sedime	ix, this sand int.	s not representa	Secondary Indicators (2 or more required) Water stained Leaves (B9)
Ithough the illica-rich sa YDROLOG /etland Hydrimary Indica S	The state of the s	vith felsi	cs and other lig	at apply)	ed sedime Water stained 1, 2, 4A, and	ix, this sand i nt. d Leaves (B9) (E	s not representa	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Ithough the illica-rich sa YDROLOG /etland Hyd rimary Indica S H	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3)	vith felsi	cs and other lig	at apply)	Water stained 1, 2, 4A, and Salt Crust (B	d Leaves (B9) (E	s not representa	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Ithough the ilica-rich sa YDROLOG /etland Hyd rimary Indica S H	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) vater Marks (B1)	vith felsi	cs and other lig	at apply)	Water stained 1, 2, 4A, and Salt Crust (B	d Leaves (B9) (E 4B) 11) tebrates (B13)	s not representa	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Ithough the ilica-rich sa IYDROLOC /etland Hyd rimary Indica S H S S S S S S S S S S S S S S S S S	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3)	vith felsi	cs and other lig	at apply)	Water stained 1, 2, 4A, and Salt Crust (B' Aquatic Invert	d Leaves (B9) (E4B) 11) tebrates (B13)	s not represent	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cartering Cartering Ca
Ithough the ilica-rich sa	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2)	vith felsi	cs and other lig	at apply)	Water stained 1, 2, 4A, and Salt Crust (Bacapata Crust) Aquatic Inverting the Control of the Con	d Leaves (B9) (E4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along	s not represents	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2)
Ithough the ilica-rich sa	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) ifft Deposits (B3)	vith felsi	cs and other lig	at apply)	Water stained 1, 2, 4A, and Salt Crust (Background) Aquatic Invertigation Hydrogen Sull Dxidized Rhiz Presence of F	d Leaves (B9) (E4B) 11) tebrates (B13) tifide Odor (C1) cospheres along Reduced Iron (C4	s not represents Except MLRA Living Roots (C3)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Carrent Company) Geomorphic Position (D2) Shallow Aquitard (D3)
Ithough the ilica-rich satisfication of the ilica-rich satisfi	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4)	one requi	cs and other lig	at apply)	Water stained 1, 2, 4A, and Salt Crust (Bandaric Inverted The Inverted	d Leaves (B9) (E4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along	s not represents Except MLRA Living Roots (C3) 4) yed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Carron Company) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Ithough the ilica-rich satisfication of the ilica-rich satisfi	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	one requi	ired; check all th	at apply)	Water stained 1, 2, 4A, and Salt Crust (B' Aquatic Inverti- Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or St	d Leaves (B9) (E4B) 11) tebrates (B13) lfide Odor (C1) cospheres along Reduced Iron (C4	s not represents Except MLRA Living Roots (C3) 4) yed Soils (C6)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Ithough the ilica-rich satisfication of the ilica-rich satisfi	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) inft Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Actorsely Vegetated Contations: resent? Yes sent? Yes inft? Yes inft? Yes inftige)	one requi	ery (B7) face (B8) No X No X No X	at apply) Depth (Depth (Water stained 1, 2, 4A, and Salt Crust (B' Aquatic Inveri- Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Strutted or Strutted or Strutted Dther (Explain inches): inches): inches):	d Leaves (B9) (E4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C4) Reduction in Plow ressed Plants (D n in Remarks)	s not represents Except MLRA Living Roots (C3) 4) yed Soils (C6) 1) (LRR A)	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Case) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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РНS# st Region	1
4/	8/2021
	t:4
	1
	:2
	: WGS84
None	
lain in Remarks)	
Y	_
ures, etc.	
No X	-
and vegetation	n are well-
1	(A)
3	(B)
33%	(A/B)
0 0 0 0 0 0	(B)
ohytic Vegetation 50%	

				tern Mountain:				
Project/Site: 35th and Oak St		City/County:	y:Florence/Lane		Sam	npling Date:	4/8/	2021
pplicant/Owner: Mike Johnson Construction					State: OR	Sa	mpling Point:	4
Investigator(s): CM/JT	ator(s): CM/JT		Section, Township, Range		ection 22, Tov			
ndform (hillslope, terrace, etc.:)			Local relief (c	oncave, convex, none		oncave	Slope (%):	2
Subregion (LRR): LRR	LRR A Lat:		43.9			4.10641	-	WGS84
Soil Map Unit Name:	Yaguina I	— oamy fine sand			WI Classification		Datum: _	WG364
Are climatic/hydrologic conditions on the site t			Yes				None	
	ydrology	significantly dis				_(if no, explain i		
	ydrology ydrology			Are "Normal Circu		nt? (Y/N)	Y	
or regetation or rij		naturally proble	mauc? II neege	d, explain any answer	's in Remarks.)			
SUMMARY OF FINDINGS - Attac	h site map	showing sar	npling poin	t locations, tran	sects, impor	tant feature	s, etc.	
lydrophytic Vegetation Present? Yes	No							
lydric Soil Present? Yes	No	x x	Is Sampled A		Yes	No	x	
Vetland Hydrology Present? Yes	No.	X	a vveud	illu :		- ''-		
recipitation levels are below normal efined in areas of prolonged saturat EGETATION - Use scientific nan	ion/inundati	on compared t	r secondary I o adjacent ar	nydrology indicate and off-site wetland	ors and/or hyd I areas examir	lric soils and ned.	vegetation	are well-
	absolute	Dominant	Indicator	Dominance Tes	t worksheet:			
ree Stratum (plot size: 30)	% cover	Species?	Status					
Pinus contorta	60	V		Number of Domina	•			
i mus contorta	60	X	FAC	That are OBL, FAC	W, or FAC:	1	(/	۹)
-		-		Total Number of De				
				Total Number of Do Species Across All		•	/5	21
						3	(1	3)
	60	= Total Cover		-				-,
inling/Shruh Stratum (alah si-a) 45	60	= Total Cover					(-,
	_)		FACIL	Percent of Dominar	nt Species			
Vaccinium ovatum	60	x	FACU		nt Species	33%		VB)
Vaccinium ovatum Gaultheria shallon	60		FACU	Percent of Dominar That are OBL, FAC	nt Species W, or FAC:			
Vaccinium ovatum Gaultheria shallon	60	x		Percent of Dominar That are OBL, FAC Prevalence Inde	nt Species W, or FAC:	33%		
Vaccinium ovatum Gaultheria shallon	60	x	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of	nt Species W, or FAC:	33% Multiply by:	. (£	
Vaccinium ovatum Gaultheria shallon	60	x	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde	nt Species W, or FAC: EX Worksheet:	33% Multiply by: x 1 =	. (A	
Vaccinium ovatum Gaultheria shallon	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species	nt Species W, or FAC: EX Worksheet:	33% Multiply by:	. (£	
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species	nt Species W, or FAC: Ex Worksheet:	33% Multiply by: x 1 = x 2 =	0 0	
Vaccinium ovatum Gaultheria shallon Morella californica b Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species	nt Species W, or FAC: Ex Worksheet:	33% Multiply by: x 1 = x 2 = x 3 =	0 0 0	
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species	nt Species W, or FAC: ex Worksheet:	33% Multiply by: x 1 = x 2 = x 3 = x 4 =	0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species	nt Species W, or FAC: ex Worksheet:	33% Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 =	0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species	nt Species W, or FAC: Ex Worksheet:	33% Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 =	0 0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species W, or FAC: Ex Worksheet: 0	33% Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/6	0 0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species W, or FAC: Ex Worksheet: 0 dex =B/A =	33% Multiply by: x 1 =	0 0 0 0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica b Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species W, or FAC: Ex Worksheet: 0 dex =B/A = 1- Rapid Te:	33% Multiply by: x 1 =	0 0 0 0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica th Stratum (plot size:)		X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	ot Species W, or FAC: Ex Worksheet: Other = B/A = Interpretation Indica 1- Rapid Tector 2- Dominance	33% Multiply by: x 1 =	0 0 0 0 0 0 0	WB)
Vaccinium ovatum Gaultheria shallon Morella californica rb Stratum (plot size:)	60 40 20	x 	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species W, or FAC: Ex Worksheet: 0 dex =B/A = 1- Rapid Te: 2- Dominance 3-Prevalence	33% Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/(tors: st for Hydrophytic re Test is >50% e Index is ≤ 3.0¹	0 0 0 0 0 0 0 (B)	VΒ)
Vaccinium ovatum Gaultheria shallon Morella californica b Stratum (plot size:		X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species W, or FAC: Ex Worksheet: 0 dex =B/A = 1- Rapid Te: 2- Dominant: 3-Prevalenc: 4-Morpholog	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/(tors: set for Hydrophytic ce Test is >50% e Index is ≤ 3.0¹ ijical Adaptations	0 0 0 0 0 0 (B)	VΒ)
Vaccinium ovatum Gaultheria shallon Morella californica rb Stratum (plot size:		X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species W, or FAC: Ex Worksheet: 0 dex =B/A = 1- Rapid Te: 2- Dominance 3-Prevalenc 4-Morpholog data in Rem	33% Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/(tors: st for Hydrophytic re Test is >50% e Index is ≤ 3.0¹	0 0 0 0 0 0 0 (B)	VΒ)
Vaccinium ovatum Gaultheria shallon Morella californica rb Stratum (plot size:		X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	otex =B/A = letation Indica 1- Rapid Te: 2- Dominanc 3-Prevalenc 4-Morpholog data in Rem 5- Wetland N	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/0 tors: st for Hydrophytic ce Test is >50% e Index is ≤ 3.0¹ ilical Adaptations arks or on a sep	O (A) O (B) O (B) O (B) O (C)	VB)
Vaccinium ovatum Gaultheria shallon Morella californica rb Stratum (plot size:		X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FACU Species UPL Species Column Totals Prevalence Ind Hydrophytic Veg	ot Species W, or FAC: Ex Worksheet: Other = B/A = Interpretation Indication 1- Rapid Teles 2- Dominance 3-Prevalence 4-Morphologidate in Rem 5- Wetland in Problematic soil and wetland in	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/(tors: st for Hydrophytic ce Test is >50% e Index is ≤ 3.0¹ ipical Adaptations arks or on a sep- Non-Vascular Pla Hydrophytic Veg Hydrophytic Veg	0 0 0 0 0 0 0 (B) c Vegetation (provide supplements) arate sheet) ants1 petation1 (Expla	WB)
Vaccinium ovatum Gaultheria shallon Morella californica rb Stratum (plot size:		X X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FACU Species UPL Species Column Totals Prevalence Ind Hydrophytic Veg Indicators of hydric disturbed or problem	ot Species W, or FAC: Ex Worksheet: Other = B/A = Interpretation Indication 1- Rapid Teles 2- Dominance 3-Prevalence 4-Morphologidate in Rem 5- Wetland in Problematic soil and wetland in	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/(tors: st for Hydrophytic ce Test is >50% e Index is ≤ 3.0¹ ipical Adaptations arks or on a sep- Non-Vascular Pla Hydrophytic Veg Hydrophytic Veg	0 0 0 0 0 0 0 (B) c Vegetation (provide supplements) arate sheet) ants1 petation1 (Expla	WB)
Vaccinium ovatum Gaultheria shallon Morella californica rb Stratum (plot size:		X X X = Total Cover	FACU	Percent of Dominar That are OBL, FAC Prevalence Inde Total % Cover of OBL Species FACW species FACU Species UPL Species Column Totals Prevalence Ind Hydrophytic Veg	ot Species W, or FAC: Ex Worksheet: Other by the second of the second o	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = (A) #DIV/(tors: st for Hydrophytic ce Test is >50% e Index is ≤ 3.0¹ ipical Adaptations arks or on a sep- Non-Vascular Pla Hydrophytic Veg Hydrophytic Veg	0 0 0 0 0 0 0 (B) c Vegetation (provide supplements) arate sheet) ants1 petation1 (Expla	WB)

			PHS #	1				Sampling Point:	4
	iption: (Describe to t	he depth n	eeded to docur	nent the indicate	or or confi	rm the abse	ence of indicators.)		
Depth	Matrix			Redox Fe		2	_		
(Inches)	Color (moist)	<u>%</u>	Color (moist)		Type¹ _	Loc²	Texture	Remarks	
0-2	10YR 2/1						Sand	High organics	
2-8	2.5Y 6/2						Sand		
8-14	2.5Y 6/2		2.5Y 6/8		<u> </u>	M	Sand	Fine	
Type: C=Cond	centration, D=Depletion	n RM=Red	lucad Matrix CS		tod Sond C	Proince	-	21	
	Indicators: (Applic					orains.	India	² Location: PL=Pore Lining, M=Matrix. eators for Problematic Hydric Soils ³ :	
	Histosol (A1)		,		dy Redox (S	S5)	maic	_	
	Histic Epipedon (A2)				ped Matrix	•		2 cm Muck (A10)	
	Black Histic (A3)				-		(except MLRA 1)	Red Parent Material (TF2)	
	Hydrogen Sulfide (A4)				ny Gleyed I		(except melox 1)	Very Shallow Dark Surface (Ti	F12)
	Depleted Below Dark S	Surface (A1	1)		eted Matrix			Other (explain in Remarks)	
	hick Dark Surface (A1	•				rface (F6)			
	Sandy Mucky Mineral (•				Surface (F7)		³ Indicators of hydrophytic vegetation and we	tland
s	Sandy Gleyed Matrix (S	64)			x Depressi			hydrology must be present, unless disturbe problematic.	d or
Restrictive L	ayer (if present):								
Гуре:									
Type: Depth (inches)							Hydric Soil Pres	sent? Yes NoX	
Depth (inches)							Hydric Soil Pres	sent? Yes NoX	
Depth (inches)	coes not equal red	uced mat	trix.				Hydric Soil Pres	sent? Yes NoX	
Depth (inches)		uced mat	trix.				Hydric Soil Pres	sent? Yes No <u>X</u>	
Depth (inches)	oes not equal red	uced mat	trix.				Hydric Soil Pres	sent? Yes NoX	
Depth (inches) Remarks:	oes not equal red		trix.				Hydric Soil Pres	sent? Yes NoX	
Depth (inches) Remarks: Sand color d HYDROLOG Vetland Hydi	oes not equal red			hat apply)			Hydric Soil Pres		
Depth (inches) Remarks: Sand color d HYDROLOG Vetland Hydi rimary Indica	oes not equal red				r stained Le	eaves (B9) (Secondary Indicators (2 or more requi	
Depth (inches) Remarks: Sand color d HYDROLOG Vetland Hydi rrimary Indica	oes not equal red SY rology Indicators:			Wate	r stained Le 4A, and 4B		Hydric Soil Pres		
Depth (inches) Remarks: Band color d HYDROLOG Vetland Hydr rimary Indica Hi	oes not equal red GY rology Indicators: ators (minimum of courface Water (A1)			Wate		·)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)	
Pepth (inches) Remarks: Sand color d HYDROLOG Vetland Hydrimary Indica	oes not equal redictions: ators (minimum of courface Water (A1)			Wate 1, 2, 4	1A, and 4B Crust (B11)	·)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)	
Pepth (inches) Remarks: Sand color d RYDROLOG Vetland Hydrimary Indica	coes not equal redictions: ators (minimum of curface Water (A1) igh Water Table (A2) aturation (A3)			Wate 1, 2, 4Salt C	IA, and 4B Crust (B11) tic Inverteb)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	ired)
Pepth (inches) Remarks: Sand color d RYDROLOG Vetland Hydi rimary Indica Si Hi Sa W Se	oes not equal redictions: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1)			Wate 1, 2, 4 Salt C Aqual	AA, and 4B Crust (B11) tic Invertebr gen Sulfide	rates (B13) e Odor (C1)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)	ired)
Pepth (inches) Remarks: Remark	coes not equal redicators: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2)			Wate 1, 2, 4 Salt C Aqual Hydro	AA, and 4B Crust (B11) tic Invertebr gen Sulfide ted Rhizosp	rates (B13) e Odor (C1)	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima	ired)
Pepth (inches) Remarks: Band color d HYDROLOG Vetland Hydrimary Indica Hi Sa W Se Dr Alt	coes not equal redicators: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) ifft Deposits (B3)			Wate 1, 2, 4 Salt C Aqual Hydro Oxidiz Prese	AA, and 4B Crust (B11) tic Invertebr gen Sulfide ted Rhizosp nce of Red	rates (B13) e Odor (C1) pheres along luced Iron (C	Except MLRA g Living Roots (C3)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima	ired)
Pepth (inches) Remarks: Remark	coes not equal redictions: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) urface Soil Cracks (B6)	one requir	ed; check all t	Wate 1, 2, 4 Salt C Aqual Hydro Oxidiz Prese Recer	AA, and 4B Crust (B11) tic Invertebringen Sulfide red Rhizospince of Red at Iron Redu	rates (B13) e Odor (C1) pheres along luced Iron (C	Except MLRA g Living Roots (C3) 24)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima X Geomorphic Position (D2) Shallow Aquitard (D3)	ired)
Pepth (inches) Remarks: Remark	coes not equal redictions: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) in Deposits (B5)	one requir	ed; check all t	Wate 1, 2, 4 Salt C Aquat Hydro Oxidiz Prese Recer Stunte	AA, and 4B Crust (B11) tic Invertebringen Sulfide red Rhizospince of Red at Iron Redu	rates (B13) e Odor (C1) pheres along luced Iron (C uction in Plo sed Plants (I	Except MLRA g Living Roots (C3) 24) wed Soils (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)	ired)
Pepth (inches) Remarks: Band color d HYDROLOG Vetland Hydi rimary Indica Si Hi Sa W Se Dr Ali Iro Su	coes not equal redictions: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) urface Soil Cracks (B6)	one requir	ed; check all t	Wate 1, 2, 4 Salt C Aquat Hydro Oxidiz Prese Recer Stunte	4A, and 4B Crust (B11) cic Invertebringen Sulfider ced Rhizospince of Redut Iron Reduct or Stress	rates (B13) e Odor (C1) pheres along luced Iron (C uction in Plo sed Plants (I	Except MLRA g Living Roots (C3) 24) wed Soils (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)
Pepth (inches) Remarks: Remark	coes not equal redictions: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) undation Visible on Aei parsely Vegetated Contracts	one requir	ed; check all t	Wate 1, 2, 4 Salt C Aquat Hydro Oxidiz Prese Recer Stunte	4A, and 4B Crust (B11) cic Invertebringen Sulfider ced Rhizospince of Redut Iron Reduct or Stress	rates (B13) e Odor (C1) pheres along luced Iron (C uction in Plo sed Plants (I	Except MLRA g Living Roots (C3) 24) wed Soils (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)
Depth (inches) Remarks: Sand color d RYDROLOG Vetland Hydi rimary Indica Si Hi Si UV Se Iro Su Int. Sp	coes not equal redicators: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) adiment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) undation Visible on Aei	one requir	ed; check all t	Wate 1, 2, 4 Salt C Aquat Hydro Oxidiz Prese Recer Stunte	4A, and 4B Crust (B11) cic Invertebr gen Sulfide red Rhizosp nce of Red at Iron Redu ed or Stress (Explain in	rates (B13) e Odor (C1) pheres along luced Iron (C uction in Plo sed Plants (I	Except MLRA g Living Roots (C3) 24) wed Soils (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)
Pepth (inches) Remarks: Remark	coes not equal redictions: ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aeroarsely Vegetated Conditions: attions:	one require) rial Imagen cave Surfac	ed; check all t y (B7) ce (B8)	Wate 1, 2, 4 Salt C Aqual Hydro Oxidiz Prese Recer Stunte	AA, and 4B Crust (B11) cic Invertebringen Sulfide ced Rhizosprince of Red at Iron Reduct or Stress (Explain in	rates (B13) e Odor (C1) pheres along luced Iron (C uction in Plo sed Plants (I	Except MLRA g Living Roots (C3) (A4) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	ired)

Remarks:

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

Project/Site:	35th and Oak	St	City/County:	F	lorence/Lane	Sampling Da	ate: 4/8/2	2021
Applicant/Owner:	Mike Johnson Co	nstruction				ate: OR	Sampling Point:	5
Investigator(s):	CM/JT		Section, To	ownship, Range		tion 22, Township	-	
Landform (hillslope, te	errace, etc.:)	Depres			concave, convex, none):	Concave		2
Subregion (LRR):	LRR	A	Lat:	43.9		ng: -124.1067		
Soil Map Unit Name:		Yaquina	— loamy fine sand			Classification:	None	*******
Are climatic/hydrologic	conditions on the site			Yes		No X (if no,		
Are vegetation			significantly dis		Are "Normal Circums			
Are vegetation	Soil or H	ydrology			ed, explain any answers in			
		-						
SUMMARY OF F	INDINGS - Atta	ch site ma _l	p showing san	npling poin	t locations, transe	cts, important fe	eatures, etc.	
Hydrophytic Vegetation	Present? Yes	1	loX	la Camulad A				
Hydric Soil Present?	Yes _	/	loX	Is Sampled A		es	No X	
Wetland Hydrology Pre	esent? Yes	N	loX					
Remarks:								
Precipitation levels	s are below norma	l in the last	month, however	r secondary l	hydrology indicators	and/or hydric soi	ls and vegetation a	re well-
defined in areas of	r prolonged satura	ion/inundat	ion compared to	o adjacent ar	nd off-site wetland a	eas examined.		
/EGETATION - L	Jse scientific nar	nes of plai	nts.	4		А		
		absolute	Dominant Species 2	Indicator	Dominance Test v	orksheet:		
ree Stratum (plot si	ize:)	% cover	Species?	Status	. Number of Dominant S	Species		
1					That are OBL, FACW,	•	4 (4	`
2					, mat are ODE, 1 AOVV,	oi 1 Ao.	1(A	·)
3					Total Number of Domi	nant		
1					Species Across All Str		2 (B)
		0	= Total Cover				(5	,
apling/Shrub Stratum	(plot size:)			Percent of Dominant S	nocios		
1					That are OBL, FACW,		50% (A	/D\
2		-					(A	/B)
3					Prevalence Index \	Vorksheet:	440	
					Total % Cover of	Multiply	by:	
·					OBL Species	x1	= 0	
		0	= Total Cover		FACW species	x2	= 0	
erb Stratum (plot siz	ze: 5)				FAC Species	×3	= 0	
Agrostis capillar		50	X	FAC	FACU Species	×4		
Hypochaeris rad		30		FACU	UPL Species Column Totals	0 (A)	-	
Taraxacum offic		10		FACU	Column Totals	(A)	0 (B)	
					Prevalence Index	=B/A =	#DIV/0!	
			-					
					Hydrophytic Vegeta	ation Indicators:		
						_1- Rapid Test for Hy	drophytic Vegetation	
						2- Dominance Test i		
		90	= Total Cover			3-Prevalence Index i		
oody Vine Stratum (plot size:	,				-	ptations ¹ (provide supp	orting
July vine Stratuin ti	piot size.	,				data in Remarks or o	. ,	
, , , , , , , , , , , , , , , , , , , ,						5- Wetland Non-Vas		
					1	_rroblematic Hydroph	ytic Vegetation ¹ (Expla	
			= Total Cover		Indicators of hydrin call	and wotland built-1	t mount by	
		0	= Total Cover		Indicators of hydric soil disturbed or problematic		must be present, unle	SS
			= Total Cover		disturbed or problematic			ss
Bare Ground in Herb S	Stratum10		= Total Cover		disturbed or problemation			x

S	O	I	1

PHS#	1	

0		
Sam	pling	Point:

-
Э.

Depth	otion: (Describe to Matrix	the depth	needed to docume			firm the abse	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Features Type ¹	Loc²	Texture	Remarks
0-4	10YR 4/1	100					Sand	~30% organic
4-7	10YR 5/3	99	10YR 4/6	1	С	М	Sand	Fine, ~30% organic
7-13	2.5Y 5/6	95	10YR 4/6	10	С	M	Sand	Fine, ~30% organic
¹Type: C=Conce	entration, D=Depletion	on, RM=Re	duced Matrix, CS=0	overed or 0	Coated Sand	d Grains		² Location: PL=Pore Lining, M=Matrix.
	idicators: (Appli						Indic	ators for Problematic Hydric Soils ³
Histosol (A1)					Sandy Redox	: (S5)		2 cm Muck (A10)
Histic Epipedon (A2)					Stripped Matr			Red Parent Material (TF2)
Black Histic (A3)				L	oamy Mucky	/ Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface
Н	drogen Sulfide (A4))		L	oamy Gleye	d Matrix (F2)		Other (explain in Remarks)
De	epleted Below Dark	Surface (A	11)		epleted Mat	rix (F3)		•
	nick Dark Surface (A	•		. R	Redox Dark S	Surface (F6)		*
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)				D	epleted Darl	k Surface (F7)		³ Indicators of hydrophytic vegetation and w hydrology must be present, unless disturb
				R	ledox Depres	ssions (F8)		problematic.
Type: Depth (inches): Remarks:	yer (if present):		ntrix.				Hydric Soil Pres	sent? Yes No
Type: Depth (inches): Remarks:	es not equal red		itrix.				Hydric Soil Pres	sent? Yes No
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro	es not equal red Y ology Indicators	duced ma					Hydric Soil Pres	sent? Yes No
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro	es not equal red	duced ma		t apply)			Hydric Soil Pres	Secondary Indicators (2 or more rec
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat	es not equal recovery plogy Indicators cors (minimum of	duced ma		w		Leaves (B9) (E		Secondary Indicators (2 or more rec
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig	Y plogy Indicators cors (minimum of rface Water (A1)	duced ma		W	2, 4A, and 4	4B)		Secondary Indicators (2 or more rec Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig	y pology Indicators cors (minimum of rface Water (A1) th Water Table (A2) turation (A3)	duced ma		W 1, Sa	2, 4A, and 4	4B) 1)		Secondary Indicators (2 or more recomplete Mater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Hig	Y plogy Indicators cors (minimum of rface Water (A1)	duced ma		W 1, SaAd	2, 4A, and 4 alt Crust (B1 quatic Inverte	4B) 1) ebrates (B13)		Secondary Indicators (2 or more recomplete Mater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig Sai Wa See	y pology Indicators cors (minimum of rface Water (A1) th Water Table (A2) turation (A3) atter Marks (B1)	duced ma		W 1, Sa Ad Hy	2, 4A, and 4 alt Crust (B1) quatic Inverte ydrogen Sulfi	4B) 1) ebrates (B13) ide Odor (C1)	Except MLRA	Secondary Indicators (2 or more red Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial In
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Hig Sai Wa See Drii	oes not equal reconstructions (minimum of race Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2)	duced ma		W 1, Sa Ad Hy	2, 4A, and 4 alt Crust (B1) quatic Inverte ydrogen Sulfi kidized Rhize	4B) 1) ebrates (B13) ide Odor (C1)	Except MLRA	Secondary Indicators (2 or more rec Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial In
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig Sai Wa See Drii	y plogy Indicators for (minimum of face Water (A1) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3)	duced ma		W 1, Se Ac Hy Or Pr Re	2, 4A, and 4 alt Crust (B1 quatic Inverte ydrogen Sulfi xidized Rhizo esence of Re ecent Iron Re	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploy	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more recomposed Mater stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial In X Geomorphic Position (D2)
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydr. Primary Indicat Hig Sai Wa See Drii Alg Iror Sur	y cors (minimum of face Water (A1) thurstion (A3) ther Marks (B1) diment Deposits (B3) all Mat or Crust (B4) in Deposits (B5) face Soil Cracks (B	duced ma	red; check all tha	W 1, Se Ad Ad Hy Or Pr Re	2, 4A, and 4 alt Crust (B1 quatic Inverte ydrogen Sulfi xidized Rhizo resence of Ro ecent Iron Re unted or Stre	4B) 1) ebrates (B13) ide Odor (C1) ospheres along educed Iron (C eduction in Ploy essed Plants (E	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more recomparts (2 or more recomparts) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial In X Geomorphic Position (D2) Shallow Aquitard (D3)
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig Sai Wa See Drii Alg Iror Sur	pes not equal record of the control	duced ma	red; check all tha	W 1, Se Ad Ad Hy Or Pr Re	2, 4A, and 4 alt Crust (B1 quatic Inverte ydrogen Sulfi xidized Rhizo resence of Ro ecent Iron Re unted or Stre	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploy	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more reconstruction water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial In X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig Sai Wa See Drii Alg Iror Sur	y cology Indicators for (minimum of face Water (A1) threat (A2) threat (A3) the Marks (B1) diment Deposits (B3) al Mat or Crust (B4) in Deposits (B5) face Soil Cracks (Bindation Visible on American American (B4) threat (B4) in Deposits (B5) face Soil Cracks (Bindation Visible on American (B4) threat (B4) in Deposits (B5) face Soil Cracks (Bindation Visible on American (B4) threat (B4) th	duced ma	red; check all tha	W 1, Se Ad Ad Hy Or Pr Re	2, 4A, and 4 alt Crust (B1 quatic Inverte ydrogen Sulfi xidized Rhizo resence of Ro ecent Iron Re unted or Stre	4B) 1) ebrates (B13) ide Odor (C1) ospheres along educed Iron (C eduction in Ploy essed Plants (E	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more red Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial In X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LR
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Hig Sai Wa See Drii Alg Iror Sur Inui	Pes not equal recovery cores (minimum of race Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B3) al Mat or Crust (B4) in Deposits (B5) face Soil Cracks (B indation Visible on A arsely Vegetated Cottons:	duced ma	red; check all tha	W 1, Se Ad Ad Hy Or Pr Re	2, 4A, and 4 alt Crust (B1: quatic Inverte ydrogen Sulfi xidized Rhizo resence of Recent Iron Re- quated or Streether (Explain	4B) 1) ebrates (B13) ide Odor (C1) ospheres along educed Iron (C eduction in Ploy essed Plants (E	Except MLRA Living Roots (C3) 4) wed Soils (C6)	Secondary Indicators (2 or more red Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial In X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LR
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indicat Su Hig Sai Va See Drii Alg Iror Sur Inu	Pes not equal recovers of the property of the	duced ma	red; check all tha	W 1, Sa Add Hy Ox Pr Rea St	2, 4A, and 4 alt Crust (B1' quatic Inverte ydrogen Sulfi kidized Rhize resence of Re ecent Iron Re unted or Stre her (Explain	4B) 1) ebrates (B13) ide Odor (C1) ospheres along educed Iron (C eduction in Ploy essed Plants (E	Except MLRA Living Roots (C3) 4) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more red Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial In X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LR
Type: Depth (inches): Remarks: Sand color do HYDROLOG Wetland Hydro Primary Indical Su Hig Sai Wa See Drit Alg Iror Sur Inu Spa Field Observat Surface Water Pre	y cology Indicators for (minimum of face Water (A1) th Water Table (A2) turation (A3) ther Marks (B1) diment Deposits (B3) al Mat or Crust (B4) in Deposits (B5) face Soil Cracks (B indation Visible on A farsely Vegetated Colors: essent? Yes ent? Yes	duced ma	red; check all tha	W 1, Si Ad Ad Hy On Pr Re St Ot	2, 4A, and 4 alt Crust (B1: quatic Inverte ydrogen Sulfi kidized Rhizo resence of Re ecent Iron Re unted or Stre ther (Explain ches):	4B) 1) ebrates (B13) ide Odor (C1) ospheres along educed Iron (Ceduction in Plovessed Plants (Ein Remarks)	Except MLRA Living Roots (C3) 4) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more reconstruction water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial In X Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LR Frost-Heave Hummocks (D7)

Appendix C

Site Photos



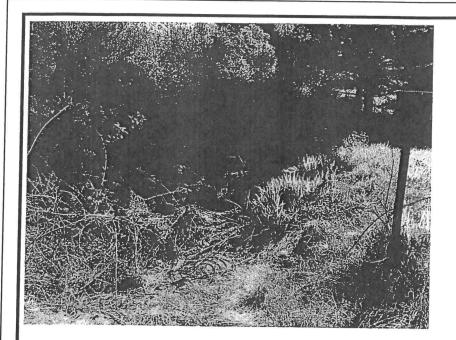


Photo A:

Looking southeast at sample point 1 in an upland depression near a manhole.

Photo date: April 8, 2021

Photo B:

Looking northeast at sample point 2.

Photo date: April 8, 2021



Project #7127 5/15/2021

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Photo documentation
35th and Oak Street—Florence, Oregon

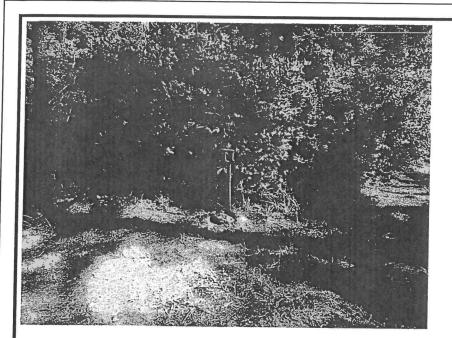


Photo C:

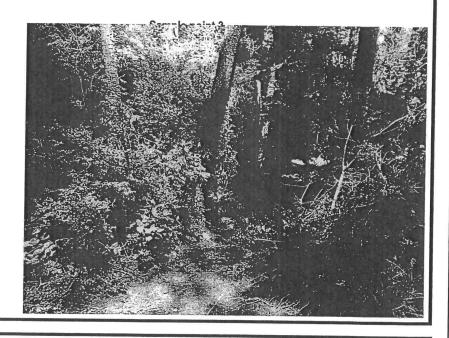
Looking northeast at sample point 3 along the pedestrian path.

Photo date: April 8, 2021

Photo D:

Looking southeast at sample point 4.

Photo date: April 8, 2021



Project #7127 5/15/2021



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35th and Oak Street—Florence, Oregon

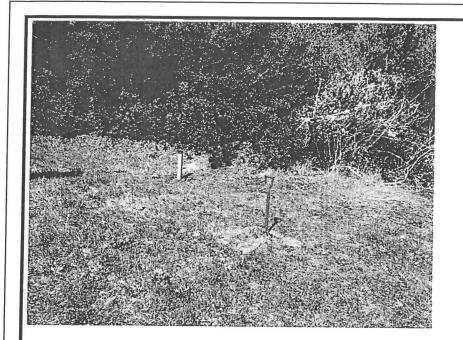


Photo E:

Looking northwest at sample point 5.

Photo date: April 8, 2021

Photo F:

Looking north at a typical footpath in the forested upland.

Photo date: April 8, 2021



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Appendix D

Wetland Definitions, Methodology



WATERS OF THE STATE AND WETLAND DEFINITION AND CRITERIA

Regulatory Jurisdiction

Wetlands and water resources in Oregon are regulated by the Oregon Department of State Lands (DSL) under the Removal-Fill Law (ORS 196.800-196.990) and by the U.S. Army Corps of Engineers (COE) through Section 404 of the Clean Water Act.

The primary source documents for wetland delineations within Oregon is the Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1 (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) (U.S. Army Corps of Engineers, 2010), which are required by both DSL and COE.

Waters of This State and Wetland Definition

Waters of This State are defined as "all natural waterways, all tidal and non-tidal bays, intermittent streams, constantly flowing streams, lakes, wetlands, that portion of the Pacific Ocean that is in the boundaries of this state, all other navigable and non-navigable bodies of water in this state and those portions of the ocean shore ..." (DSL, 2009).

Wetlands are defined 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 conditions" (DSL 2009).

Wetland Criteria

Based on the above definition, three major factors characterize a wetland: hydrology, substrate, and biota.

Wetland Hydrology

Wetland hydrology is related to duration of saturation, frequency of saturation, and critical depth of saturation. The 1987 manual defines wetland hydrology as inundation or saturation within a major portion of the root zone (usually above 12 inches), typically for at least 12.5% of the growing season. The wetland hydrology criterion can be met, however, if saturation within the major portion of the root zone is present for only 5% of the growing season, depending on other evidence.

The growing season is defined as the portion of the year when soil temperatures at 12.0 inches below the soil surface are higher than biological zero (41 degrees Fahrenheit, 5 degrees Celsius), but also allows approximation from frost-free days, based on air temperature. The growing season for any given site or location is determined from US Natural Resources Conservation Service, (formerly Soil Conservation Service) data and information.

Wetland hydrologic indicators include the following: visual observation of inundation or saturation, watermarks, drift lines, sediment deposits, and/or oxidized rhizospheres with living roots. Oxidized rhizospheres are defined as yellowish-red zones around the roots and rhizomes of some plants that grow in frequently saturated soils. Other indicators of hydrology, including algal mats or crust, iron deposits, surface soil cracks, sparsely vegetated concave surface, salt crust, aquatic invertebrates, hydrogen sulfide odor, reduced iron, iron reduction in tilled soils, and stunted or stressed plants can also be used to determine the presence of wetland hydrology.

Wetland Substrate (Soils)

Most wetlands are characterized by hydric soils. Hydric soils are those that are ponded, flooded, or saturated for long enough during the growing season to develop anaerobic conditions. Periodic saturation of soils causes alternation of reduced and oxidized conditions, which leads to the formation of redoximorphic features (gleying and mottling). Mineral hydric soils will be either gleyed or will have bright mottles and/or low matrix chroma. The redoximorphic feature known as gley is a result of greatly reduced soil conditions, which result in a characteristic grayish, bluish or greenish soil color. The term mottling is used to describe areas of contrasting color within a soil matrix. The soil matrix is the portion of the soil layer that has the predominant color. Soils that have brightly colored mottles and a low matrix chroma are indicative of a fluctuating water table.

Hydric soil indicators include organic content of greater than 50% by volume, and/or presence of redoximorphic features and dark soil matrix, as determined by the use of a Munsell Soil Color Chart. This chart establishes the chroma, value and hue of soils based on comparison with color chips. Mineral hydric soil must meet one of the 16 definitions for hydric soil indicators, or be classified as a "problem soil" in the Regional Supplement.

Wetland Biota (Vegetation)

Wetland biota is defined as hydrophytic vegetation. A hydrophyte is a plant species that is capable of growing in substrates that are periodically deficient in oxygen as a result of saturated soil conditions. The U.S. Fish and Wildlife Service, in the *National List of Plant Species that Occur in Wetlands*, has established five basic groups of vegetation based on their frequency of occurrence in wetlands. These categories, referred to as the "wetland indicator status", are as follows: obligate wetland plants (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), and obligate upland (UPL). Table 1 gives a definition of the plant indicator codes.

Table 1. Description of Wetland Plant Indicator Status Codes

Indicator	가야 하는 것이 없는 것이 되었다면 하는데 하는데 하는데 하는데 되었다면 하는데
Code	Status
OBL	Obligate wetland. Plants that always occur in standing water or in saturated soils.
FACW	Facultative wetland. Plants that nearly always occur in areas of prolonged flooding or require standing water or saturated soils but may, on rare occasions, occur in non-wetlands.
FAC	Facultative. Plants that occur in a variety of habitats, including wetland and mesic to xeric non-wetland habitats but commonly occur in standing water or saturated soils.
FACU	Facultative upland. Plants that typically occur in xeric or mesic non-wetland habitats but may frequently occur in standing water or saturated soils.
UPL	Obligate upland. Plants that rarely occur in water or saturated soils.
	C 1

Observations of hydrology, soils, and vegetation, were made using the "Routine On-site" delineation method as defined in the 1987 manual and the Regional Supplement for areas that were not currently in agricultural production. One-foot diameter soil pits were excavated to 20 inches and soil profiles were examined for hydric soil and wetland hydrology field indicators. In addition, a visual absolute-cover estimate of the dominant species of the plant community was performed using soil pit locations as a center of reference. Dominant plant species are based on estimates of absolute cover for herbaceous, and shrub species within a 5-foot radius of the sample point, and basal area cover for tree and woody vine species within a 30 foot radius of the sample point. Plant species in each vegetative layer, which are estimated at less than 20% of the total cover, are not considered dominant. The wetland indicator status is then used to determine if there is an overall dominance (greater than 50%) of wetland or upland plant species. If less than 50% of the dominant species are hydrophytic, then the prevalence index may be used to determine if the subdominant species are hydrophytic. If the prevalence index is less than or equal to three, hydrophytic vegetation criterion is met.

During data collection, the soil profiles were examined for hydric soil and wetland hydrology field indicators. Plant species and cover were recorded. Data was recorded on standard data sheets, which contain the information specified in the 1987 Corps Manual and the Regional Supplement.