WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

This form must be included with any wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submittal is not "complete" unless the fully completed and signed report cover form and the required fee are submitted. Attach this form to the front of an unbound report or include a hard copy of the completed form with a CD/DVD that includes a single PDF file of the report cover form and report (minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279.** A single PDF attachment of the completed cover from and report may be e-mailed to **Wetland_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail instructions on how to access the file from your ftp or other file sharing website. Fees can be paid by check or credit card. Make the check payable to the Oregon Department of State Lands. To pay the fee by credit card, call 503-986-5200.

Applicant Owner Name, Firm and Address:	Business phone # (503) 472-7514				
Premier Development, LLC	Mobile phone # (503) 437-0477				
Attn: Lori Zumwalt 1312 NE Highway 99W	E-mail: loriz.premier@gmail.com				
NcMinnville, OR 97128					
Authorized Legal Agent, Name and Address:	Business phone #				
	Mobile phone #				
	E-mail:				
property for the purpose of confirming the information in the report, Typed/Printed Name: Lori Zumwalt Date: 04/11/2019 Special instructions regarding site acc	Signature: \$0002 umwldX, mullsh_ ess:				
	for lat/long.,enter centroid of site or start & end points of linear project)				
Project Name: Oak Ridge Subdivision	Latitude: 45.22881° Longitude: -123.21472°				
Proposed Use: Residential development	Tax Map # 4S 4W 7, 4S 4W 17				
Project Street Address (or other descriptive location):	Township 4S Range 4W Section 1 7,7 QQ				
NW of NW Pinot Noir Drive and Merlot Drive	Tax Lot(s) 1300, Portion of 1202; Portion of 602				
0	Waterway: Baker Creek River Mile:				
City: McMinnville County: Yamhill	NWI Quad(s): McMinnville, OR				
Wetland Delineation Information					
Wetland Consultant`Name, Firm and Address: Pacific Habitat Services	Phone # 503-570-0800 Mobile phone # 503-804-2281				
Attn: Caroline Rim	E-mail: cr@pacifichabitat.com				
9450 SW Commerce Circle, Suite 180					
Wilsonville, OR 97070					
The information and conclusions on this form and in the attached re Consultant Signature:	port are true and correct to the best of my knowledge. Date: 04/11/2019				
Primary Contact for report review and site access is 🛛 C	onsultant				
Wetland/Waters Present? ☐ Yes ☐ No Study Area	size: 20.24 acres Total Wetland Acreage: 5.49/Waters: 0.14				
Check Box Below if Applicable:	Fees:				
R-F permit application submitted					
☐ Mitigation bank site	Fee (\$100) for resubmittal of rejected report				
☐ Wetland restoration/enhancement project (not mitigation)	☐ No fee for request for reissuance of an expired				
☐ Industrial Land Certification Program Site	report				
Reissuance of a recently expired delineation					
Previous DSL # Expiration date					
Other Information:	Y N				
Has previous delineation/application been made on parcel?	☐ If known, previous DSL #99-0444 / 22091-FP				
Does LWI, if any, show wetland or waters on parcel?					
	ice Use Only				
DSL Reviewer: Fee Paid Date:	// DSL WD #				
Date Delineation Received:// DSL Pro	pject # DSL Site #				
Scanned: □ Final Scan: □ DSL WI	N# DSI App #				

Wetland Delineation for Oak Ridge Subdivision and Sewerline, McMinnville, Oregon

(Township 4 South, Range 4 West Section 17, Tax Lot 1300, Portion of Tax Lot 1202 and Section 7, Portion of Tax Lot 602)

Prepared for

Lori Zumwalt Premier Development, LLC 1312 NE Highway 99W McMinnville, OR 97128

Prepared by

Carlee Michelson, Caroline Rim, Joe Thompson, John van Staveren Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, Oregon 97070 (503) 570-0800 (503) 570-0855 FAX

PHS Project Number: 6464

March 28, 2019



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I. INTRODUCTION

Pacific Habitat Services, Inc. (PHS) conducted a wetland delineation on April 17, October 18 and October 24, 2018, and January 22, 2019, in McMinnville, Yamhill County, Oregon (Township 4 South, Range 4 West, Section 17, Tax lot 1300, portion of Tax Lot 1202 and Section 7, portion of Tax lot 602). This report presents the results of PHS's delineation of the study area. Figures, including maps depicting the locations of wetlands within the study area, are in Appendix A. Data sheets documenting study area conditions are provided in Appendix B. Ground-level photos of the study area 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 20.24 acre study area is located north of NW Pinot Noir Drive, approximately 1 mile northwest of Highway 99 in McMinnville, Oregon. Land use surrounding the study area includes residential development to the south and open space including agriculture and riparian zones to the north, east and west. The majority of the study area is located on a bluff overlooking the southern terrace of Baker Creek while a portion of the study area is on the stream terrace, which is nearly flat. Baker Creek is a perennial waterway located on the northern boundary of the study area with steeply incised banks. Baker Creek meanders into a portion of the study area and flows southeast. Elevations range between approximately 120 feet and 165 feet according to a topographic land survey provided by Leland MacDonald & Associates, LLC.

The majority of the study area is fallow non-irrigated farmland composed of annual grasses including common velvet grass (*Holcus lanatus*, FAC), field meadow foxtail (*Alopecurus pratensis*, FAC), reed canarygrass (*Phalaris arundinacea*, FACW), tall false rye grass (*Schedonorus arundinaceus*, FAC) and bent grasses (*Agrostis* spp., FAC). Oregon white oak trees (*Quercus garryana*, FACU) are present along field margins and slopes. A mature riparian forest canopy along Baker Creek is composed of Oregon white oak, Douglas fir (*Pseudotsuga menziesii*, FACU), Oregon ash (*Fraxinus latifolia*, FACW), and big-leaf maple (*Acer macrophyllum*, FACU).

Mapped soils within the study area include Chehalis silty clay loam (0-3% slopes), Waldo silty clay loam (0-3% slopes, Hydric), Cove silty clay loam, flooded (0-3% slopes, Hydric), Willamette silt loam (0-3% slopes), and Woodburn silt loam (20-55% slopes) (USDA, 2018).

B. Site Alterations

Pre-settlement vegetation was likely upland forested slopes and wetland terraces adjacent to Baker Creek. An examination of historical aerial photos shows that a dirt roadway and soil movement within the study area occurred at the same time as upslope residential development (outside of the study area) between the years 2000 and 2005 (www.historicaerials.com).

The dirt roadway extended along the base of slope in the south to the central study area (or north-central portion of Tax lot 1300). This area contains disturbed soils compacted with gravel and cobble. Prior to 1994, the study area remained either fallow or was worked agriculturally. Remants of a previously-created wetland mitigation area are located midway along the eastern portion of Tax Lot 1300. Stormwater outfalls reside upslope at the base of existing development along NW Pinot Noir Drive, which has caused sheet flow across much of the southern slopes where wetlands were mapped by PHS. A gravel roadway traverses the eastern study area in a northwest-southeast direction.

C. Precipitation Data and Analysis

Table 1 compares the average monthly precipitation at the nearest Natural Resource Conservation Service's (NRCS) WETS station (Rex 1 S) to the observed monthly precipitation at the McMinnville 0.1 NW weather station in the three months prior to PHS's wetland delineation field work. As shown in Table 1, observed precipitation in July and August were far below normal; February, September and November were approximately half of normal, and the remaining months were either normalized or exceeded normal conditions.

Table 1: Comparison of average and observed monthly precipitation prior to the delineation fieldwork in April and October 2018, and January 2019.

		•			
	30% Chanc	e Will Have			
Average Precipitation	Less Than Average	More Than Average	Observed Precipitation**	Percent of Normal	
6.30	3.93	7.61	7.90	125	
5.18	3.54	6.17	2.23	43	
4.45	3.34	5.19	3.99	90	
0.70	0.22	0.81	0.08	11	
0.89	0.29	1.00	0.00	0	
1.76	0.76	2.05	1.13	64	
3.34	1.84	4.07	3.42	102	
6.83	4.64	8.15	3.62	53	
6.95	4.70	8.30	7.47	108	
6.30	3.93	7.61	4.74	75	
	6.30 5.18 4.45 0.70 0.89 1.76 3.34 6.83 6.95	Average Precipitation Less Than Average 6.30 3.93 5.18 3.54 4.45 3.34 0.70 0.22 0.89 0.29 1.76 0.76 3.34 1.84 6.83 4.64 6.95 4.70	Precipitation Less Than Average More Than Average 6.30 3.93 7.61 5.18 3.54 6.17 4.45 3.34 5.19 0.70 0.22 0.81 0.89 0.29 1.00 1.76 0.76 2.05 3.34 1.84 4.07 6.83 4.64 8.15 6.95 4.70 8.30	Average Precipitation Less Than Average More Than Average Observed Precipitation 6.30 3.93 7.61 7.90 5.18 3.54 6.17 2.23 4.45 3.34 5.19 3.99 0.70 0.22 0.81 0.08 0.89 0.29 1.00 0.00 1.76 0.76 2.05 1.13 3.34 1.84 4.07 3.42 6.83 4.64 8.15 3.62 6.95 4.70 8.30 7.47	

*NRCS WETS Table (Rex 1 S) (https://www.wcc.nrcs.usda.gov/climate/navigate_wets.html)

Total observed precipitation for the water year from October 2017 to September 2018 was 44.82; total observed precipitation for the water year October 2018 to January 2019 was 19.25 inches, which is 82% of normal for this same period compared to the Rex 1 S WETS station in Newberg (23.42 inches). On April 17, 2018, 0.3 inches of precipitation was recorded, and 4.53 inches was recorded over the prior two weeks. No precipitation fell on October 18, and 0.6 inches was recorded over the prior two weeks. On October 24, 0.02 inches was recorded, and no precipitation was recorded over the prior two weeks. On January 22, 2019, 0.04 inches was recorded and 3.55 inches were recorded over the prior two weeks. Precipitation levels prior to field work were not likely to have affected the boundaries delineated by PHS, as hydrology indicators were evident throughout the site in areas of prolonged inundation or saturation.

^{**}Monthly Total Precipitation (McMinnville, 0.1 NW) (https://www.wcc.nrcs.usda.gov/climate/navigate_wets.html)

D. Methods

PHS delineated the limits of the wetlands in the study area based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation in accordance with the routine onsite determination method, 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. One reach of Baker Creek (a water of the state/U.S.) and six wetlands were delineated within the study area.

Wetlands A, B, C and D are generally located on slopes or at the base of slopes in the southern portion of the study area. They were delineated based on the presence of oxidized rhizospheres and frost-heave hummocks where seeps or storm outfalls are draining from the slope. These areas also align with hydric soils consisting mainly of redox dark surface or depleted matrices. Hydrophytic vegetation is present in both the upland and the wetland, likely because of periodic sheet flow capable of supporting hydrophytic vegetation like reed canarygrass, but not persistent enough to form hydric soils or display hydrology indicators. The level of subsurface hydrologic conditions was not discounted in areas upslope, particularly where hydrophytic vegetation resides. Since precipitation averages were not within a normal range for the three months prior to the delineation field work, some excavations upslope were investigated to a depth of 24 inches to assess overall conditions.

Wetlands E and F were delineated mainly on the presence of hydrology, which consisted of oxidized rhizospheres along living roots present within the first several inches of the soil profile in a compacted and disturbed soil layer. This disturbed area is likely due to the movement of heavy equipment and the placement of fill within a prior upland area, which contains a mixed matrix with compacted gravel and cobble. The presence of oxidized rhizospheres at present is likely due to compaction caused by operating heavy equipment.

The ordinary high water (OHW) was delineated along one reach of Baker Creek within the study area based on an evaluation of observed physical characteristics, as described in the U.S. Army Corps of Engineers' Regulatory Guidance Letter No. 05-05 (December 7, 2005) and methods outlined in the Department of State Lands (DSL) removal-fill guide.

E. Description of all Wetlands and Other Waters

PHS identified the jurisdictional limits of six wetlands and one reach of Baker Creek (a water of the state/U.S.) within the study area. Descriptions of the delineated wetlands and Baker Creek are provided below. The size of each wetland/waters is show on Table 2 in Section I, Results and Conclusions.

Wetland A

Wetland A is a palustrine emergent- persistent, seasonally saturated (PEM1B) wetland with a hydrogeomorphic (HGM) classification of Slope. The wetland begins at a back slope and continues downslope to the north, where it encompasses a portion of dirt roadway that has been overgrown by perennial grasses over the years. The wetland receives hydrology from seeps emitting groundwater from the slope, stormwater run-off, and upslope culverts directing flow

from impervious surfaces along residential developments to the south and outside of the study area. Sample points 14, 16, 19, 22, 23, 24, 25, 27, 29, 31, 33, 34, and 36 characterize Wetland A, which is dominated by Himalayan blackberry (*Rubus armeniacus*, FAC), field meadow foxtail, and reed canarygrass. Hydrology indicators include oxidized rhizospheres along living roots and FAC-neutral test. Soil indicators include redox dark surface, depleted matrix and depleted below dark surface. Adjacent uplands are dominated by Douglas' hawthorn (*Crataegus douglasii*, FAC), cherry (*Prunus* sp., (FAC)), beaked hazelnut (*Corylus cornuta*, FACU), and Oregon white oak, as characterized by sample points 13, 15, 20, 21, 26, 28, 32, 35, and 37. No hydric soils were present within the upland; however, hydrology indicators were present through FAC-neutral test (sample point 15) and surface water (sample point 21). Sample point 32 displayed hydric soils, but no hydrology. Wetland A continues south outside of the study area.

Wetlands B, C, and D

Wetland B, Wetland C, and Wetland D are all located along the shoulder slope and back slope of the southern study area west and southwest of Wetland A. The wetlands reside within an area of the slope where either the grade lessens and water appears to accumulate for a longer duration, or a seep emits groundwater mid-slope. The wetlands have a Cowardin classification of PEM1B with a HGM classification of Slope. These wetlands additionally receive hydrology from stormwater run-off and culverts diverting stormwater from upslope residences outside of the study area. The wetlands are dominated by velvet grass, reed canarygrass, and lamp rush (*Juncus effusus*, FACW). Hydrology indicators include oxidized rhizospheres along living roots, FAC-neutral test and frost-heave hummocks. Soil indicators include redox dark surface, depleted matrix and depleted below dark surface. Sample points 10, 12, and 18 characterize the wetlands, while the uplands are characterized by sample points 11, 13, and 17. The upland is dominated by Himalayan blackberry, teasel (*Dipsacus fullonum*, FAC), field meadow foxtail, velvet grass, reed canarygrass, and Canadian thistle (*Cirsium arvense*, FAC). The upland displays no hydric soils and one secondary hydrology indicator, FAC-neutral test (sample point 13).

Wetlands E and F

Wetland E and Wetland F are both situated atop old fill that was placed in the study area several years ago. The wetlands are not fed through groundwater, but rather accumulate precipitation in shallow depressions along a slope within the fill. The elevation of Wetland E and F is above several naturally occurring upland areas within the study area. Both wetlands have a Cowardin class of PEM1B and although the topography has depressional features, the wetlands are located on a gradual slope and don't retain surface moisture for long periods; therefore the HGM class is Slope. Sample points 4, 7 and 8 characterize the wetlands, which are dominated by perennial grasses like colonial bent grass (*Agrostis capillaris*, FAC), and other newly emerged unidentified grass. Hydrology indicators include oxidized rhizospheres along living roots, algal mat or crust and frost-heave hummocks. Soil indicators include redox dark surface and depleted matrix. The uplands are characterized by sample points 3, 6 and 9. The upland is dominated by Himalayan blackberry, colonial bent grass, lesser hawkbit (*Leontodon saxatilis*, FACU), and unidentified grasses. The upland displays no hydric soils, but some areas displayed oxidized rhizospheres along living roots (sample points 6 and 9).

Baker Creek

Baker Creek meanders through the central eastern study area. The channel is well defined and has become deeply incised with evidence of scouring along steep slopes. Average channel width varies between approximately 20-30 feet, and conveys perennial flow east and outside of the study area. The top of bank is dominated by Douglas fir, Oregon white oak, Oregon ash, big-leaf maple and a thick understory of Himalayan blackberry. The Cowardin classification is riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) wetland, with an HGM class of Riverine Flow-Through (RFT).

F. Deviation from Local Wetland Inventory or National Wetland Inventory

There is no Local Wetlands Inventory (LWI) for the City of McMinnville, Oregon. The findings of the wetland delineation do not agree with the National Wetland Inventory (NWI), which displays a single wetland in alignment with Baker Creek. PHS mapped additional wetlands within the floodplain of Baker Creek that do not appear in the NWI. The discrepancy is likely due to a lack of ground-truth surveying associated with the NWI mapping process, and a general lack of wetland signatures in aerial photographs, which are used to interpret wetland locations.

G. Mapping Method

PHS flagged the limits of the wetlands with blue flagging tape and the sample points with green flagging tape. The wetland flagging and most of the sample points were then professionally surveyed by Leland MacDonald & Associates, LLC. The estimated accuracy of the survey and sample points is sub-centimeter, with the exception of sample points 1, 3-4, 6-7, 8-9, 14-18, 26 and 33, which were placed in the field based on surveyed flag locations and have an estimated accuracy of plus or minus 3 feet.

H. Additional Information

Baker Creek is a designated essential salmonid habitat (ESH) for winter-run steelhead (*Oncorhynchus mykiss*) (DSL, 2010-2015). A confluence with the North Yamhill River resides approximately two miles northeast of the study area; the North Yamhill River is an ESA Critical Habitat for steelhead.

I. Results and Conclusions

PHS delineated six potential wetlands and one potential waters of the state. The following table summarizes the resources delineated by PHS.

Table 2: Summary of Wetlands and Water Resources within the Study Area

Feature	Area square feet / acre	Cowardin Class	HGM Class
Wetland A	229,703 / 5.27	PEM1B	Slope
Wetland B	Vetland B 663 / 0.01		Slope
Wetland C	Vetland C 697 / 0.02		Slope
Wetland D	432 / 0.01	PEM1B	Slope

Feature	Area square feet / acre	Cowardin Class	HGM Class
Wetland E	7,442 / 0.17	PEM1B	Slope
Wetland F	223 / 0.01	PEM1B	Slope
Baker Creek	6,342 / 0.14	R2UBH	Riverine Flow-Through
Total Wetland	239,160 / 5.49		
Total Waters	6,342 / 0.14		

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

Adamus, P.R. and D. Field, 2001. *Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Study areas. Willamette Valley Ecoregion, Riverine Impounding and Slopes/Flats Subclasses*. Oregon Division of State Lands, Salem, OR.

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Munsell Color, 2010. Munsell Soil Color Charts. Grand Rapids, Michigan. 2009 Year Revised, 2010 Production.

Natural Resources Conservation Service (NRCS) Monthly Summarized data for the McMinnville 0.1 NW Weather Station. Source: (https://www.wcc.nrcs.usda.gov/climate/navigate_wets.html)

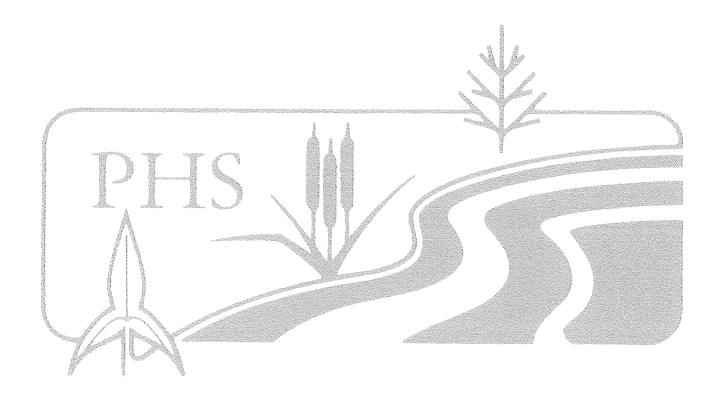
NRCS WETS Table for the Rex 1 S Weather Station. Source: (https://www.wcc.nrcs.usda.gov/climate/navigate_wets.html)

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- U.S. Department of Agriculture, Natural Resource Conservation Services, 2018. NRCS Web Soil Survey.
- US Fish and Wildlife Service. 2018. Online Wetlands Mapper, V2.
- U.S. Geological Survey, 2017. McMinnville, Oregon-Yamhill Co., 7.5-minute Quadrangle Map

Appendix A

Figures



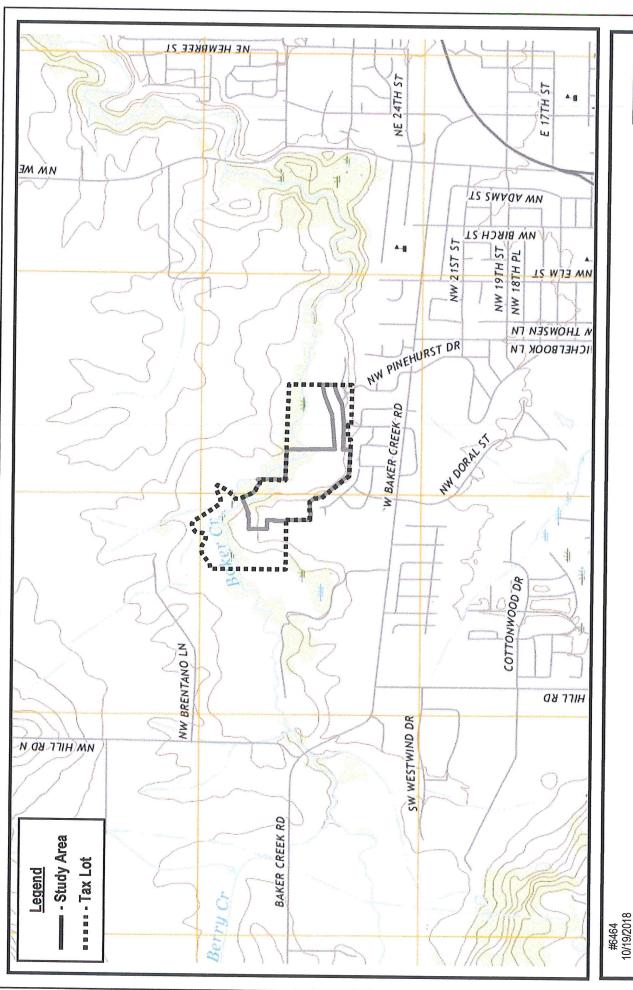


FIGURE General Location and Topography Oak Ridge Subdivision and Sewerline - McMinnville, Oregon United States Geological Survey (USGS), McMinnville, Oregon-Yamhill Co., 7.5 Quadrangle, 2017 (viewer/nationalmap.gov/basic)

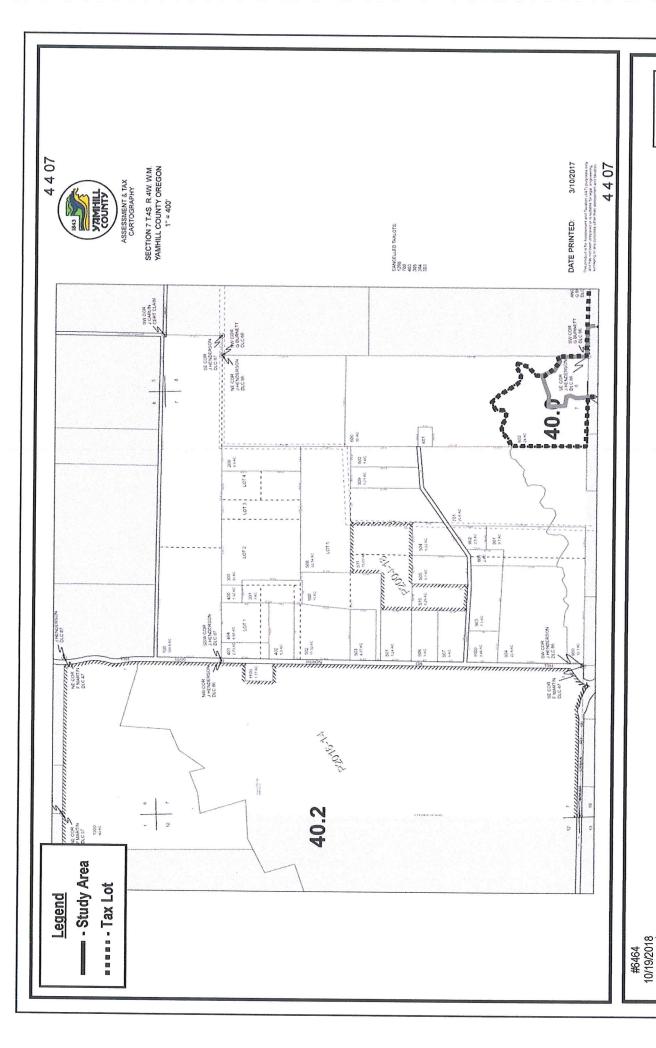
SH4

4 4 17 & INDEX 4 4 17 9291 P P atn 335 356 MAP 4 4 1650 DIVISION LINE DOR 58. 28.00 24.00 SEE WAP 4 4 08 200 263 AC SECTION 17 T4S R4W W.M.
YAMHILL COUNTY SEE MAP 4 4 20AB 668 13 45 4 1 17 AC 269 PBA STAN 90; 8,91 ac 56E WAP 4 4 20BA **\$**0.0 4 17BG 61 + + arn 135 - Study Area """ - Tax Lot Legend

Tax Lot Map Oak Ridge Subdivision and Sewerline - McMinnville, Oregon The Oregon Map (ormap.net)

FIGURE

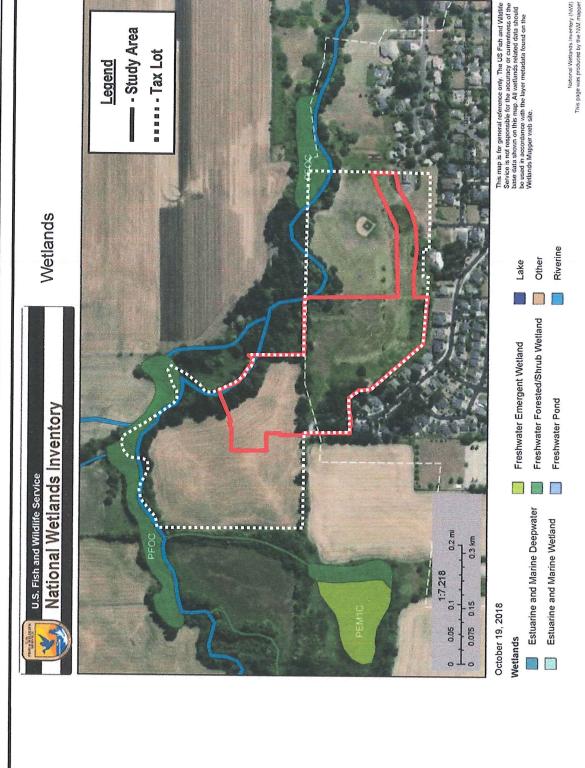




Tax Lot Map Oak Ridge Subdivision and Sewerline - McMinnville, Oregon The Oregon Map (ormap.net)

FIGURE

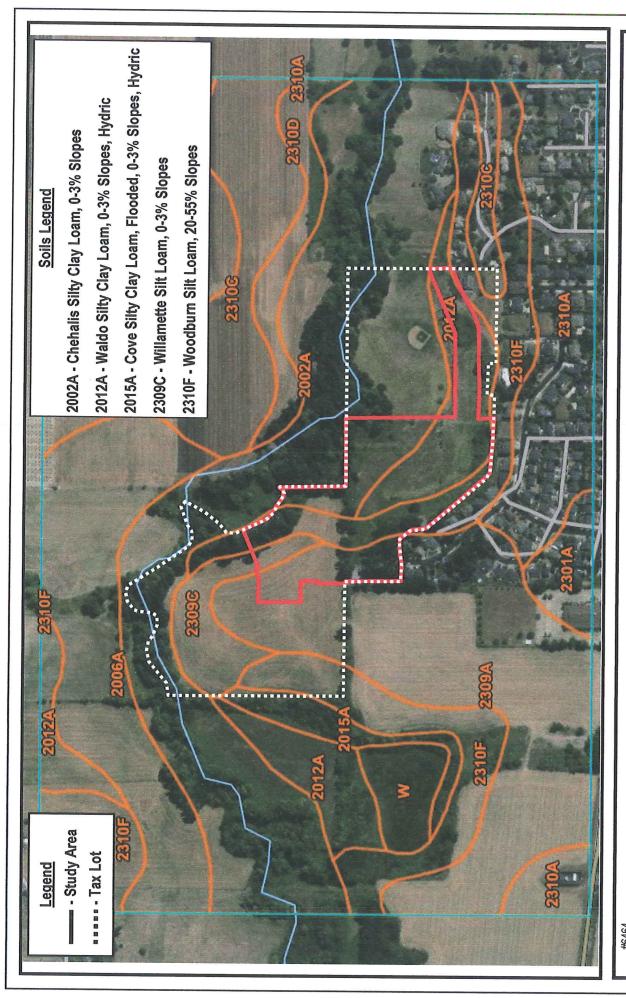
2B



p FIGURE

National Wetland Inventory Map Oak Ridge Subdivision and Sewerline - McMinnville, Oregon United States Fish and Wildlife Service, Online Wetland Mapper V2, 2018

#6464 10/19/2018 PHS



10/19/2018



Soils Oak Ridge Subdivision and Sewerline - McMinnville, Oregon Natural Resources Conservation Services, Web Soil Survey, 2018 (websoilsurvey.sc.egov.usda.gov)

FIGURE

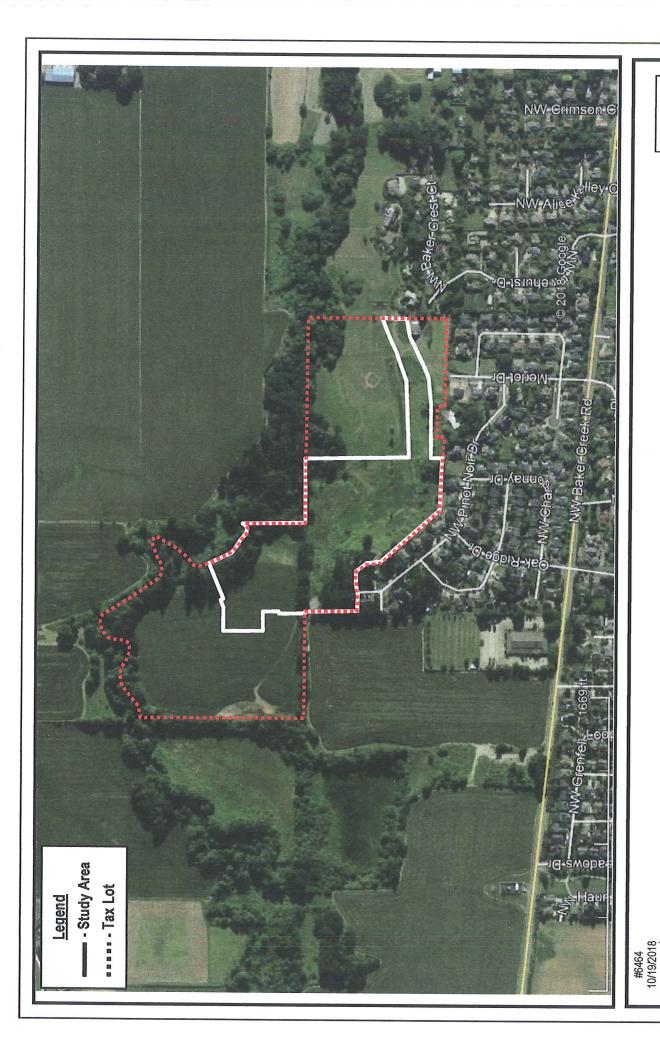


FIGURE Aerial Photo (June 2017)
Oak Ridge Subdivision and Sewerline - McMinnville, Oregon
GoogleEarth, 2018

S

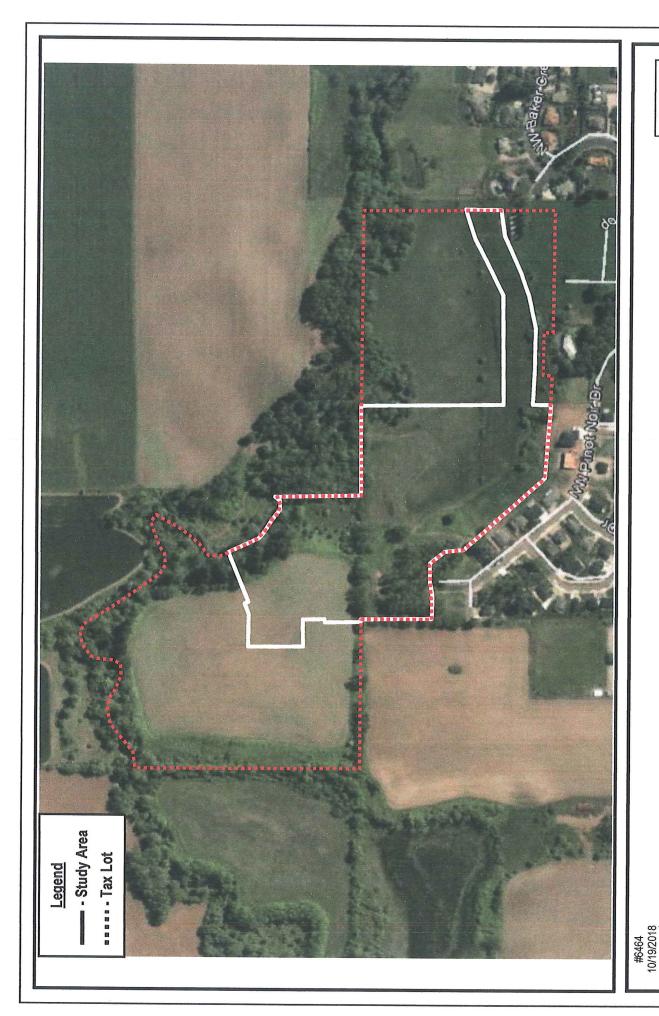
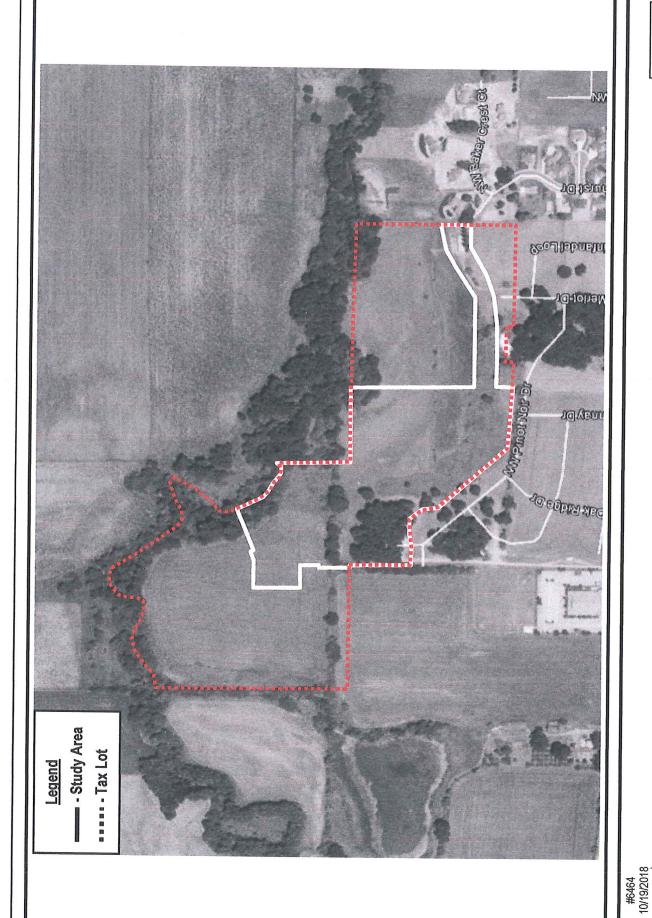


FIGURE Aerial Photo (May 2004) Oak Ridge Subdivision and Sewerline - McMinnville, Oregon GoogleEarth

5A



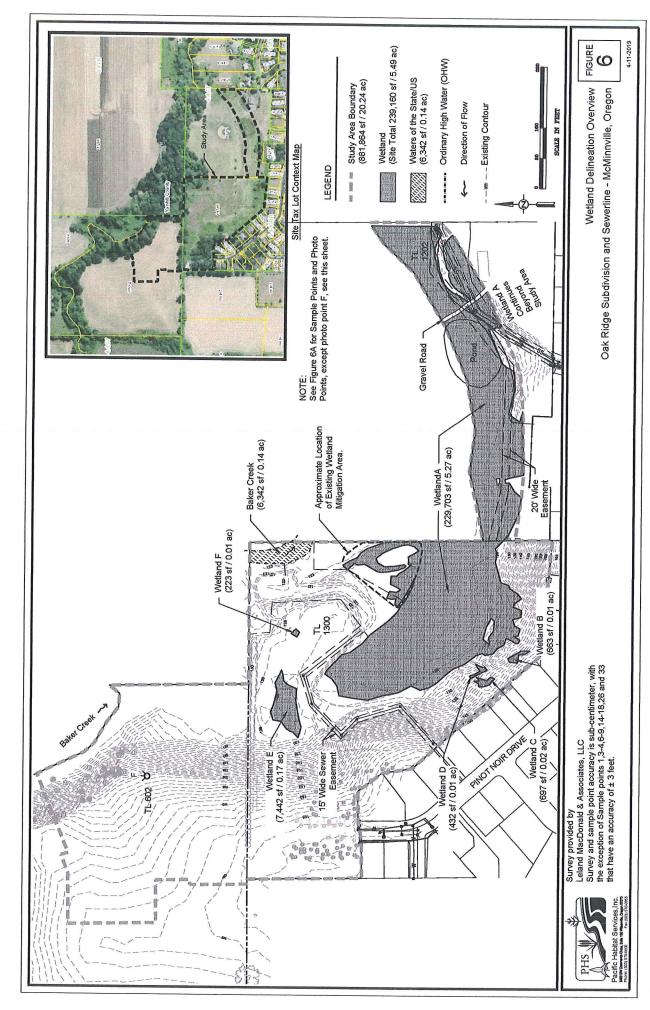


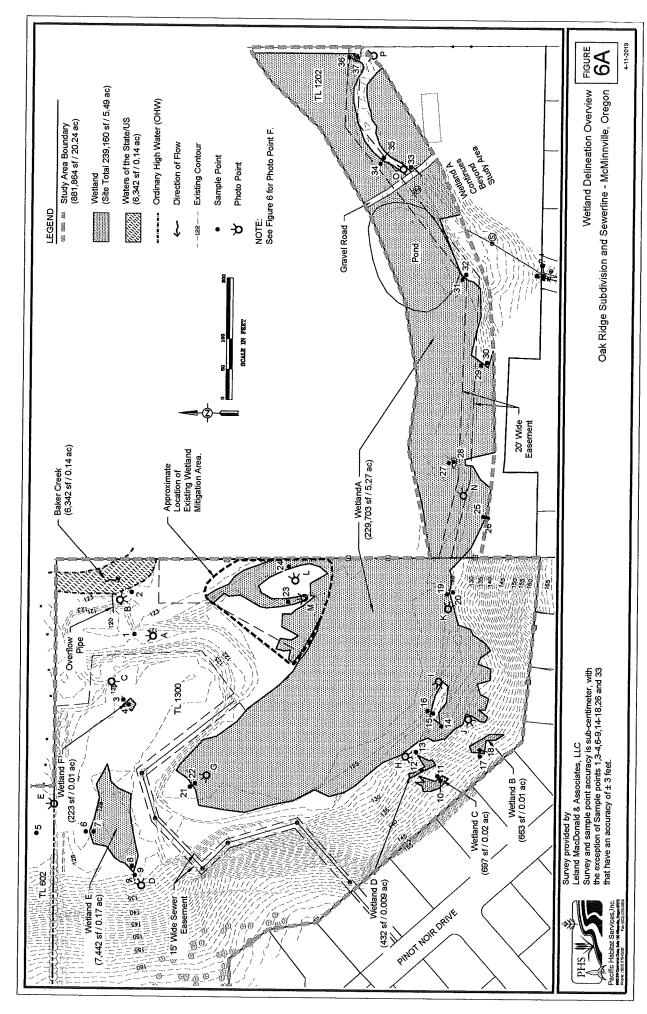
Aerial Photo (June 1994) Oak Ridge Subdivision and Sewerline - McMinnville, Oregon GoogleEarth

FIGURE

5B

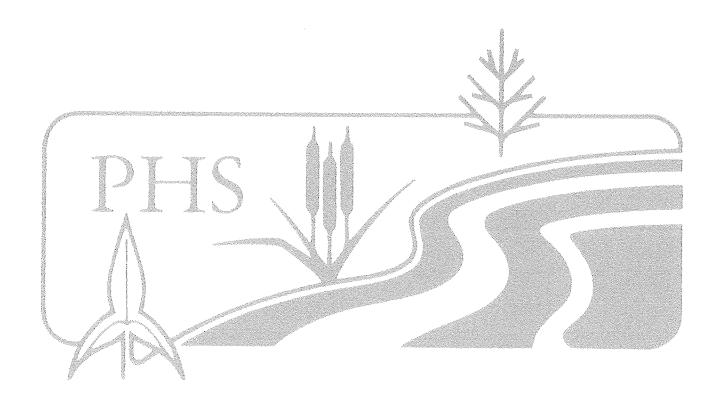






Appendix B

Wetland Delineation Data Sheets



1S #

6464

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

emior Dovo					Sampling Date:		/2019
ciliei Deve	lopment, LLC			State	: OR	Sampling Point:	
CR	/JT	Section, To	wnship, Range:	Sect	tion 17 Township 4		Paradi di Tanana
ce, etc.:)	Swale		Local relief (co				2
1	RR A	Lat:					WGS84
	Chehalis	— Silty Clay Loan	n				
nditions on the							
		-					
DINGS - A	Attach site map	showing san	npling point	locations, transect	s, important feat	ıres, etc.	
resent? Ye	s X No)					
Ye	s No	X		rea within nd? Yes	3	No X	
nt? Ye	s X No)					
			<u> L</u>				
e scientific	names of plan	ts.				***	
	absolute	Dominant Species?	Indicator	Dominance Test wo	rksheet:		
:)	Species?	Status	Number of Dominant Sn	anina		
	 ′					3 (Δ١
				11144 410 002, 17,000, 01	17.0.		-)
				Total Number of Domina	int		
				Species Across All Strats	a:	3 (3)
	0	= Total Cover				,	,
(plot size:)			Percent of Dominant Spe	ecies		
	,			1		100%	√B)
						· · · · · · · · · · · · · · · · · · ·	,
				Prevalence Index W	orksheet:		
				Total % Cover of	Multiply by	<u> </u>	
				OBL Species	x 1 =	0	
	0	= Total Cover		FACW species	x 2 =	0	
5)			1			
	—′ 20	x	FACW	•			
	10			1			2\
	10	Х		Goldmit Totals	(^)	(L	"
	5		FAC	Prevalence Index =	:B/A = #I	DIV/01	
					_		
		6 1		Hydrophytic Vegeta	tion Indicators:		
					1- Rapid Test for Hydro	phytic Vegetation	
				X			
	45	= Total Cover					
ot size;)					-	porting
	,			l .		•	
							lain)
	0	≃ Total Cover					-
				disturbed or problematic.	,,, 3,	p	
ratum	55			Hydrophytic	Ve 4	**	
				Vegetation Present?	res X	_ No_	
	The second secon						
	ce, etc.:) I conditions on the Soil Soil PDINGS — Ye	Cee, etc.:) Swale LRR A Chehalis: Onditions on the site typical for this ti Soil or Hydrology Soil or Hydrology DINGS — Attach site map resent? Yes X No Yes No Yes X No Yes X No Yes X No (plot size:) Cea 20 10 10 5 ot size:)	Cee, etc.:) Swale	Swale	Coe, etc.; Swale	Concave	Companies Companies Companies Companies Companies Slope (%):

_	$\overline{}$	

D	uе	##	

Samplina Poir	٦ŧ

1	

Profile Descri	ption: (Describe to	the depth	needed to docum			nfirm the abse	nce of indicators.)	
(Inches)	Matrix Color (moist)	%	Color (moist)	Redo %	x Features Type ¹	Loc ²	Texture	Daniel de
0-2	10YR 3/2	100	Color (moist)	70	Type	LUC		Remarks
2-12	7.5YR 3/3	99	10Y 4/	1		****	Silt Loam	Class
(6-12)	~	2	101 4/		-		Silty Clay	Gley
								Gleyed
					-			
		***************************************	Barrar and an					
						<u>himmungang di kida mangga</u>	1112	
1 00								
	centration, D=Depleti Indicators: (Appl							² Location: PL=Pore Lining, M=Matrix.
	Histosol (A1)	icable to	ali LRRS, unies	s otnerw	-		Indic	ators for Problematic Hydric Soils ³ :
	Histic Epipedon (A2)				Sandy Redo	' '		2 cm Muck (A10)
	,				Stripped Mat	` ,		Red Parent Material (TF2)
	Black Histic (A3)			E	3	y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
	dydrogen Sulfide (A4	,	• • • •			d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	•	4 11)		Depleted Ma	` '		
	Thick Dark Surface (A	,			Redox Dark	, ,		³ Indicators of hydrophytic vegetation and wetland
	Sandy Mucky Mineral	. ,				k Surface (F7)		hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix				Redox Depre	ssions (F8)		problematic.
Restrictive L	.ayer (if present):	:						
Туре:					_			
Depth (inches):							Hydric Soil Pres	ent? Yes NoX
Remarks:								
HYDROLO								
Wetland Hyd	Irology Indicator	s:						
Primary Indic	ators (minimum of	one req	uired; check all th	at apply)				Secondary Indicators (2 or more required)
<u>X</u> 8	Surface Water (A1)					Leaves (B9) (Except MLRA	Water stained Leaves (B9)
	ligh Water Table (A2)			1, 2, 4A, and	4B)		(MLRA1, 2, 4A, and 4B)
	Saturation (A3)				Salt Crust (B1	11)		Drainage Patterns (B10)
	Vater Marks (B1)				Aquatic Inver	tebrates (B13)		Dry-Season Water Table (C2)
	Sediment Deposits (B	2)		Hydrogen Sulfide Odor (C1)				Saturation Visible on Aerial Imagery (C9
	Prift Deposits (B3)			Oxidized Rhizospheres along Living Roots (C3)			,	Geomorphic Position (D2)
	Igal Mat or Crust (B4	1)		Presence of Reduced Iron (C4)			•	Shallow Aquitard (D3)
	on Deposits (B5)	200		Recent Iron Reduction in Plowed Soils (C6)				Fac-Neutral Test (D5)
	urface Soil Cracks (E	•		Stunted or Stressed Plants (D1) (LRR A)		D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)	
	nundation Visible on A parsely Vegetated C				Other (Explain	n in Remarks)		Frost-Heave Hummocks (D7)
	•	oncave or	inace (Bo)					
Field Observ		17						
Surface Water I	•	<u> </u>	No	-	(inches):	6		
	er Table Present? Yes No X Depth (inches): >12					Wetland Hydr	ology Present?	
Saturation Pres (includes capillary	_	<u> </u>	No	Depth	(inches):	2		Yes X No
Describe Recor	ded Data (stream ga	uge, monit	oring well, aerial nh	otos previ	ous inspection	ns), if available		
	, 34 .	5 /	zonai pri) provi		/i ii utuliable.		
emarks:			, <u>, , , , , , , , , , , , , , , , , , </u>			·		
surface satu	ration not associ	ated witl	n a high water ta	ble.				

₽HS # Coast Region	6464
Date:10	0/24/2018
	int:2
ip 4S, Range 4V	V
Slope (%	%):3
Mana	m: WGS84
None , explain in Remark	
/N) Y	•
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
features, etc.	
NoX	
NOX	
1	(A)
7	(B)
	(— <i>)</i>
14%	(A/B)
.h. h	
oly by: 1 = 0	
2= 0	_
3 = 0	-
4 = 0	
5= 0	
0	(B)
#DIV/0!	
,,,,,,,	_
•	
Hydrophytic Vegeta	tion
st is >50%	
ex is≤3.0 ¹ Adaptations¹ (provide	e eunnorting

Project/Site:	Oak Ridge Sub	odivision	City/County:	McM	linnville/Yamill	Sa	mpling Date:	10/2	4/2018
Applicant/Owner:	Premier Devel	opment, LLC				State: OR		Sampling Point:	2
Investigator(s):	CM/	/JT	Section, To	ownship, Range:		Section 17, T			
_andform (hilislope, te	rrace, etc.:)	Terrace/Top	of Bank	Local relief (co	ncave, convex, non-		None		3
Subregion (LRR):	L	RR A	Lat:	45.230)22	Long: -1	23.21451	Datum:	WGS84
oil Map Unit Name:		Chehalis	 Silty Clay Loar	n		NWI Classification	n:	- None	
re climatic/hydrologic	conditions on the	site typical for this t	ime of year?	Yes		No		n in Remarks)	
re vegetation	Soil	or Hydrology	significantly dis	turbed?	Are "Normal Circ	umstances" pres		Υ	
re vegetation		or Hydrology	_						
SIIMMADV OF E									
SUMMARY OF F lydrophytic Vegetation				npling point	locations, tran	sects, impo	rtant featur	es, etc.	
lydric Soil Present?	Yes			is Sampled A		v			
Vetland Hydrology Pro				a Wetlar	nd?	Yes	N	°X	
	esem? res	N	• <u>X</u>						
emarks:									
EGETATION - (Jse scientific	names of plar	its.						
		absolute	Dominant	Indicator	Dominance Te	st worksheet			
ree Stratum (plot s	ize: 30	% cover	Species?	Status	Number				
1 Quercus garrya		′ 	x	FACU	Number of Dominion	•		4	(4)
Pseudotsuga n		20	X	FACU	That are OBL, FA	SVV, OF PAC:		1	(A)
3	···				Total Number of D	ominant			
					Species Across Al			7	(B)
		50	= Total Cover						` ,
apling/Shrub Stratum	(plot size:	15)			Percent of Domina	nt Species			
Holodiscus dis	color	30	X	FACU	That are OBL, FA	•	1	4%	(A/B)
Corylus cornut	а	20	Х	FACU					
Rubus ursinus		20	X	FACU	Prevalence Ind	ex Workshee	t:		-
Physocarpus c				FACW	Total % Cover of		Multiply by:	-	
Oemleria ceras	iformis			FACU	OBL Species		_ x1=	0	
		80	= Total Cover		FACW specie	******	_ x2=	0	
erb Stratum (plot si	ize: 5)			FAC Species	-	- x3= x4=	0	
Polystichum m			Х	FACU	UPL Species		^ x5 =	0	
Phalaris arundi	nacea	5	X	FACW	Column Total		(A)		B)
							_		•
					Prevalence I	ndex =B/A =	#DI	V/01	
					Hydrophytic Ve	=			
								hytic Vegetatior)
		15	= Total Cover				ance Test is >50 nce Index is ≤ 3		
		10	- Total Cover					ง.บ ons ¹ (provide รเ	pporting
oody Vine Stratum	(plot size:)			***************************************			separate sheet)	
							d Non-Vascular		
	······································					Problema	tic Hydrophytic	Vegetation ¹ (Ex	plain)
		0	= Total Cover	•	¹ Indicators of hydri		d hydrology mu	ıst be present, ι	nless
					disturbed or proble	matic.			
Bare Ground in Herb	Stratum	85			Vegetation	Yes	S	No	х
					Present?				

SOIL			PHS#	6464			Sampling Point: 2
Profile Descr	iption: (Describe to	the depth	needed to docum	ent the indicator or c	onfirm the abs	ence of indicators.)	
Depth	Matrix			Redox Features		<u>.</u>	
(Inches)	Color (moist)	<u>%</u>	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
0-4	7.5YR 2.5/2	100				Sandy Loam	
4-12	7.5YR 3/2	100				Sandy Loam	
					-		
Type: C=Con	contration D-Donlati	~ 514-0					
				Covered or Coated Sa			² Location: PL=Pore Lining, M=Matrix.
	Histosol (A1)	lcable to	ali LKKS, unies	s otherwise noted	-	Indica	ators for Problematic Hydric Soils ³ :
	Histic Epipedon (A2)			Sandy Red	• •		2 cm Muck (A10)
	Black Histic (A3)			Stripped Ma	` '	(except MLRA 1)	Red Parent Material (TF2)
	Hydrogen Sulfide (A4	1)			/ed Matrix (F2)	(ехсерт мыка т)	Very Shallow Dark Surface (TF12)
	Depleted Below Dark	•	A11)	Depleted M			Other (explain in Remarks)
	Thick Dark Surface (A	•	,		Surface (F6)		
	Sandy Mucky Mineral	l (S1)			ark Surface (F7))	³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	(S4)			essions (F8)	,	hydrology must be present, unless disturbed or problematic.
Type: Depth (inches)	_ayer (if present):					Hydric Soil Pres	ent? Yes NoX
Type: Depth (inches)						Hydric Soil Pres	ent? Yes NoX
Type: Depth (inches) Remarks: HYDROLOG	GY					Hydric Soil Pres	ent? Yes NoX
Type: Depth (inches) Remarks: HYDROLOG):					Hydric Soil Pres	ent? Yes NoX
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd	GY	s:	uired; check all th	nat apply)		Hydric Soil Pres	Secondary Indicators (2 or more required)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY drology Indicators ators (minimum of Surface Water (A1)	s: one requ	uired; check all th	Water stains	ed Leaves (B9)		Secondary Indicators (2 or more required) Water stained Leaves (B9)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2)	s: one requ	uired; check all th	Water stains 1, 2, 4A, and	d 4B)		Secondary Indicators (2 or more required)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3)	s: one requ	uired; check all th	Water stains 1, 2, 4A, and Salt Crust (E	d 4B) 311)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1)	s: one requ	uired; check all th	Water staine 1, 2, 4A, and Salt Crust (E	d 4B) 311) rtebrates (B13)	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)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic S H S V	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3)	s: one requ	uired; check all th	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve	d 4B) 311) rtebrates (B13) ulfide 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 (C9)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Gurface Water (A1) digh Water Table (A2) Gaturation (A3) Vater Marks (B1) Sediment Deposits (B)	s: Fone requ	uired; check all th	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St	d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres alon	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 (C9) Geomorphic Position (D2)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Gurface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3)	s: Fone requ	uired; check all th	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of	d 4B) Itebrates (B13) Iffide Odor (C1) Izospheres alon Reduced Iron (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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyde Primary Indic S H S U S D A In S	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) digal Mat or Crust (B4 on Deposits (B5) surface Soil Cracks (E	s: f one requ) 2)		Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron	d 4B) Itebrates (B13) Iffide Odor (C1) Izospheres alon Reduced Iron ((Except MLRA g Living Roots (C3) C4) owed 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 (C9) Geomorphic Position (D2)
Type: Depth (inches) Remarks: HYDROLOG Vetland Hyd Primary Indicases V S D A Irr	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 on Deposits (B5) Surface Soil Cracks (E	s: fone requ) 2) Aerial Imag	gery (B7)	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S	ti 4B) st11) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (G)	(Except MLRA g Living Roots (C3) C4) owed 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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Type: Depth (inches) Remarks: HYDROLOG Vetland Hyd Primary Indicases F S U S D A Irr S In	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) digal Mat or Crust (B4 on Deposits (B5) surface Soil Cracks (E	s: fone requ) 2) Aerial Imag	gery (B7)	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S	ti 4B) Itebrates (B13) Ilfide Odor (C1) Izospheres alon Reduced Iron (I Reduction in Platessed Plants (I	(Except MLRA g Living Roots (C3) C4) owed 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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Enundation Visible on A	s: fone requ) 2) Aerial Imag	gery (B7)	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S	ti 4B) Itebrates (B13) Ilfide Odor (C1) Izospheres alon Reduced Iron (I Reduction in Platessed Plants (I	(Except MLRA g Living Roots (C3) C4) owed 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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches) Remarks: HYDROLOG Vetland Hyd Primary Indic	GY Irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (E mundation Visible on A sparsely Vegetated Co	s: fone requ) 2) Aerial Imag	gery (B7)	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S	ti 4B) Itebrates (B13) Ilfide Odor (C1) Izospheres alon Reduced Iron (I Reduction in Platessed Plants (I	(Except MLRA g Living Roots (C3) C4) owed 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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indic S F S V S D A Irr S In	GY drology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Jugal Mat or Crust (B4) on Deposits (B5) Surface Soil Cracks (E Spansely Vegetated Col ations: Present? Yes	s: fone requ) 2) Aerial Imag	gery (B7) urface (B8)	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ti 4B) Itebrates (B13) Ilfide Odor (C1) Izospheres alon Reduced Iron (I Reduction in Platessed Plants (I	Except MLRA Ig Living Roots (C3) C4) Dewed Soils (C6) ED1) (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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

Remarks:

,	WETLAND DE	TERMINATIO	N DATA FO	RM - West	ern Mountain:	s, Valleys	s, and Coast	PHS #	6464
Project/Site:	Oak Ridge Sub	division	City/County:	McI	Minnville/Yamill		Sampling Date:	10/2	4/2018
Applicant/Owner:	Premier Develo	pment, LLC				State: O	R :	Sampling Point:	3
Investigator(s):	CM/J	T	Section, To	ownship, Range		Section 17	, Township 4S,	Range 4W	
Landform (hillslope,	terrace, etc.:)	Depression	/Slope	Local relief (co	oncave, convex, none		Concave	Slope (%):	0
Subregion (LRR):	LR	RR A	Lat:	45.23	017	Long:	-123.21568	Datum:	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name	:	Chehalis	Silty Clay Loar	n	1	NWI Classifica	ation:	None	
Are climatic/hydrolog	gic conditions on the s	ite typical for this t	ime of year?	Yes		No		in in Remarks)	
Are vegetation X	Soil X o	r Hydrology	significantly dis	urbed?	Are "Normal Circ	-		N	
Are vegetation	Soilo	r Hydrology			d, explain any answe				•
SUMMARY OF	FINDINGS - At	tach site man							
Hydrophytic Vegetat	ion Present? Yes	X No		ilpinig point	locations, tran	sects, imp	portant teatur	es, etc.	·
Hydric Soil Present?		No.		is Sampled A		Voc		. v	
Wetland Hydrology I		No.		a Wetla	ind?	Yes	N	°X	
Remarks:			′ <u> </u>	<u> </u>					
	n with mwed vege	tation and hard	l-packed grave	l.					
VEGETATION .	Use scientific r				T				
		absolute % cover	Dominant Species?	Indicator Status	Dominance Tes	st workshe	et:		
Tree Stratum (plo	t size:)			Number of Domina	ınt Species			
1					That are OBL, FAC	CW, or FAC:		3	(A)
2									` ,
3					Total Number of D	ominant			
4		_			Species Across All	Strata:		4	(B)
		0	= Total Cover						
Sapling/Shrub Stratu	m (plot size: 18	5)			Percent of Domina	nt Species			
1 Rubus armen	iacus	20	X	FAC	That are OBL, FAC	W, or FAC:	7:	5%	(A/B)
2									
3		_			Prevalence Inde	ex Workshe	eet:		3 1888
4					Total % Cover of		Multiply by:	_	
5					OBL Species		x 1 =	0	
		20	= Total Cover		FAC Species		x2=	0	
<u>lerb Stratum</u> (plot	size: 5)			FAC Species FACU Species		x3=	0	
1 Agrostis capi	llaris		X	FAC	UPL Species		x4= x5=	0	
2 Unidentified g		20	X	(FAC)	Column Totals		(A)		B)
3 Leontodon sa	xatilis	20	Х	FACU			· 7	(-,
4 Geranium sp.		10		(FAC)	Prevalence In	dex =B/A ≈	#DI	V/0!	
5 Daucus carota	3	2		FACU					
6					Hydrophytic Ve	getation In	dicators:		
7						1- Rapi	d Test for Hydropl	nytic Vegetation	1
8					X	2- Dom	inance Test is >50)%	
		102	= Total Cover				alence Index is ≤ 3		
	(plot size:)					hological Adaptation	-	pporting
Voody Vine Stratum	,,	,			i	data in	Remarks or on a s	separate sheet)	
Voody Vine Stratum					1			•	
Voody Vine Stratum 12						5- Wetla	and Non-Vascular natic Hydrophytic	Plants ¹	ulaiu)

Hydrophytic Vegetation Present?

No__

Yes X

Sample area mowed, but vegetation is identifiable.

% Bare Ground in Herb Stratum

PHS#

Sampling Point:

/Iala.a.s\	Matrix			nt the indi Redox	k Features		•	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	10YR 4/3	95	5YR 4/6	5	С	PL	Silty Clay Loam	Fine
1-9	10YR 2/1	10					Silty Clay Loam	Mixed matrix; gravel ~10%
1-9	10YR 4/3	90					Silty Clay Loam	Mixed matrix; gravel ~10%
9-12	10YR 4/3	20					Silty Clay Loam	Mixed matrix
9-12	10YR 5/2	70					Silty Clay Loam	Mixed matrix
9-12	10YR 3/2	10					Silty Clay Loam	Mixed matrix
						The state of the s		
¹ Type: C=Conc	entration, D=Depletio	n, RM=Re	duced Matrix, CS=C	Covered or	Coated San	d Grains.		² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applic						· · · · · · · · · · · · · · · · · · ·	tors for Problematic Hydric Soils ³ :
	Histosol (A1)		•		Sandy Redox			2 cm Muck (A10)
	distic Epipedon (A2)		-		Stripped Mate			
	Black Histic (A3)		-			יוג (פס) y Mineral (F1) (פּ	event MI RA 1)	Red Parent Material (TF2)
	lydrogen Sulfide (A4)		-			y Milheral (F1) (e ed Matrix (F2)	except with 1)	Very Shallow Dark Surface (TF12)
	Depleted Below Dark S		-44\					Other (explain in Remarks)
	hick Dark Surface (A	•	-		Depleted Mat	` '		
	·	•	-		Redox Dark S	` ,	;	³ Indicators of hydrophytic vegetation and wetland
	Sandy Mucky Mineral (-		•	k Surface (F7)		hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix (S4)			Redox Depre	ssions (F8)		problematic.
	ayer (if present):							
Type:								
Depth (inches)	:				-		Hydric Soil Prese	ent? Yes NoX
····	l from past disturi	bances. (Gravel is import	ed.				
Matrix mixed			Gravel is import	ed.				
Matrix mixed HYDROLOG Wetland Hyd	3Y	:	-					Secondary Indicators (2 or more required)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica	GY rology Indicators ators (minimum of ourface Water (A1)	: one requi	-	at apply)v		I Leaves (B9) (I		Secondary Indicators (2 or more required) Water stained Leaves (B9)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica	GY Irology Indicators ators (minimum of	: one requi	-	at apply)v	Vater stained , 2, 4A, and			
Matrix mixed HYDROLOG Wetland Hyd Primary Indica	GY rology Indicators ators (minimum of ourface Water (A1)	: one requi	-	at apply) v 1		4B)		Water stained Leaves (B9)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Hi	GY rology Indicators ators (minimum of ourface Water (A1) ligh Water Table (A2)	: one requi	-	at apply) W 1,	, 2, 4A, and alt Crust (B1	4B)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3)	: one requi	-	at apply) W 1, S	, 2, 4A, and a last Crust (B1 aquatic Invert	4B) 11)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Hi Si W Se	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	: one requi	-	at apply) W 1, s A	, 2, 4A, and a alt Crust (B1 equatic Invertally dydrogen Sulf	4B) 11) tebrates (B13) fide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Hi Si W Si Al	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4)	: one requi	-	at apply) V 1, s A	, 2, 4A, and a salt Crust (B1 quatic Inverted by drogen Sulf by drogen Sulf by droged Rhiz	4B) 11) tebrates (B13) fide Odor (C1)	Except MLRA g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Hi Si W Si Al	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	: one requi	-	at apply) V 1, S A H O	, 2, 4A, and a salt Crust (B1 aquatic Invertible Invert	4B) (1) (ebrates (B13) (fide Odor (C1) (cospheres along	Except MLRA g Living Roots (C3) C4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
HYDROLOG Wetland Hyd Primary Indica Si Hi Si U Si Iri Si	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6)	: one requi	ired; check all tha	at apply) W 1, S A H O P	, 2, 4A, and a call Crust (B1 aquatic Invertible Invert	4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Carrier Company) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOG Wetland Hyd Primary Indica Si Hi Si U Si Iri Si	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5)	: one requi	ired; check all tha	at apply) V 1, S A H O P R S S	, 2, 4A, and a salt Crust (B1 equatic Invertible Invert	4B) (11) (debrates (B13) (fide Odor (C1) (cospheres along (Reduced Iron (C) (deduction in Plo	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si With Si On Al Inc	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6)	cone requi	ired; check all tha	at apply) V 1, S A H O P R S S	, 2, 4A, and a salt Crust (B1 equatic Invertible Invert	4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C) teduction in Plotessed Plants (D)	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si With Si On Al Inc	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) parsely Vegetated Co	cone requi	ired; check all tha	at apply) V 1, S A H O P R S S	, 2, 4A, and a salt Crust (B1 equatic Invertible Invert	4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C) teduction in Plotessed Plants (D	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si W Se Dr Al Irc St	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Coations:	cone requi	ired; check all tha	at apply) V 1, S A H O P R S S	, 2, 4A, and a call Crust (B1 aquatic Inverted by Argument Sulface of Recent Iron Returned or Struther (Explain	4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C) teduction in Plotessed Plants (D	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indica Si With Si Al Irc Si Inti	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Coations:	cone requi	ery (B7)	at apply) V 1, S A H O P R Si	, 2, 4A, and additional content of the content of t	4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C) teduction in Plotessed Plants (D	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si With Si Jin Sp Field Observa	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Coations: Present? Yes ent? Yes	cone requi	ired; check all tha	at apply) W 1, S A H O P R Si O Depth (ir	, 2, 4A, and additional content of the content of t	4B) It) Itebrates (B13) Itebrates (B13) Itebrates (B13) Itebrates along Reduced Iron (Coleduction in Plotessed 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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Wi Sc Dr Al Irc Su Inc Sp Field Observa Surface Water P Vater Table Prese saturation Prese ncludes capillary fr	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Coations: Present? Yes ent? Yes	cone requi	ired; check all tha	at apply) W 1, S A H O P R S O Depth (ir	, 2, 4A, and additional content of the content of t	4B) Italian (B13) I	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 (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Wi Sc Dr Al Irc Su Inc Sp Field Observa Surface Water P Vater Table Prese saturation Prese ncludes capillary fr	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Aparsely Vegetated Co ations: Present? Yes ent? Yes liftinge)	cone requi	ired; check all tha	at apply) W 1, S A H O P R Si O Depth (ir	, 2, 4A, and additional content of the content of t	4B) Italian (B13) I	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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Matrix mixed HYDROLOG Wetland Hyd Primary Indica Si Wi Sc Dr Al Irc Su Inc Sp Field Observa Surface Water P Vater Table Prese saturation Prese ncludes capillary fr	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Aparsely Vegetated Co ations: Present? Yes ent? Yes liftinge)	cone requi	ired; check all tha	at apply) W 1, S A H O P R Si O Depth (ir	, 2, 4A, and additional content of the content of t	4B) Italian (B13) I	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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

,	WETLAND DETI	ERMINATIO	N DATA FO	RM - Weste	ern Mountai	ns, Valle	vs. and Coas	PHS#	6464
Project/Site:	Oak Ridge Subdi		City/County:		linnville/Yamill		Sampling Date:		4/2018
Applicant/Owner:	Premier Develop	ment, LLC				State:	OR	Sampling Point:	
Investigator(s):	CM/JT		Section, To	wnship, Range:		-	17, Township 4S		——————————————————————————————————————
Landform (hillslope,	terrace, etc.:)	Depression	•		ncave, convex, no	THE STATE OF THE S	Concave		0
Subregion (LRR):	LRR		Lat:	45.230			· · · · · · · · · · · · · · · · · · ·	Slope (%):	
Soil Map Unit Name			— Silty Clay Loam		712	Long:		Datum:	WGS84
	gic conditions on the site					NWI Classi		None	
Are vegetation X				Yes		No		ain in Remarks)	
			significantly dist				" present? (Y/N)	N	
Are vegetation	_ Soil or l	-lydrology	naturally probler	matic? If needed	i, explain any ansv	wers in Rema	arks.)		
SUMMARY OF	FINDINGS - Atta	ich site man	showing sam	nnlina point	locations tra	inearte ii	mnortant foatu	roe oto	
Hydrophytic Vegetati	ion Present? Yes	X No		ipinig point	iocations, tra	ilisects, il	iiportant leatu	res, etc.	
Hydric Soil Present?		X No	The supplied of the supplied o	Is Sampled A	rea within	.,	v .		
Wetland Hydrology F				a Wetla	nd?	Yes	<u> </u>	Vo	
	resent? res	X No)						
Remarks:									
VEGETATION	· Use scientific na	mos of plan	4						
VEGETATION -	Ose scientific na	absolute	Dominant	Indicator	In-min-man T				·
		% cover	Species?	Status	Dominance T	est works	neet:		
Tree Stratum (plot	t size:)			Number of Domi	inant Species	S		
1					That are OBL, F.	•		2	(A)
2						, , , , , , , , , , , , , , , , , , , ,			(, _\
2				***************************************	Total Number of	Dominant			
4					Species Across			2	(B)
		0	= Total Cover		1				(-)
Sapling/Shrub Stratu	m (plot size:	\			Doroant of Damir				
1		- ′			Percent of Domin	•		000/	(A (D)
2					That are OBL, F	ACVV, or FAC	J: 1	00%	(A/B)
3					Prevalence In	doy Morks	- hoot:		
4					1.				
5		*			Total % Cover of OBL Specia		Multiply by:	_	
		0	= Total Cover		FACW speci		x1=	0	
			rotal cover		FAC Speci		x 2 = x 3 =	0	
Herb Stratum (plot	size: 5)			FACU Spec		x 4 =	0	
1 Unidentified g	ırass	50	X	(FAC)	UPL Specie		x5=	0	
2 Agrostis capil	llaris	30	X	FAC	Column Tot	als	0 (A)	0 (B)
3 Geranium sp.		10		(FAC)					,
4 Leontodon sa	xatilis	5		FACU	Prevalence	Index =B/A	= #C	IV/0!	
5									
6					Hydrophytic \	/egetation	Indicators:		
7		·				1- R	apid Test for Hydro	phytic Vegetation	i
8					x	2- D	ominance Test is >5	50%	
		95	= Total Cover	· · · · · · · · · · · · · · · · · · ·			evalence Index is≤		
March 18 61 1	(-1-4 -:					4-Mc	orphological Adapta	tions¹ (provide su	pporting
Woody Vine Stratum	(plot size:	_'					in Remarks or on a		
1							etland Non-Vascula		
2							lematic Hydrophytic		
		0	= Total Cover				etland hydrology m	ust be present, u	nless
					disturbed or probl	iematic.			
% Bare Ground in He	rb Stratum	5			Hydrophytic Vegetation		Yes X	No	
					Present?		***************************************	- ''-	ar out to

Remarks:

^	^		
•		1	

PHS	#		

Sampling Point:

		me deptit i	needed to docume			nfirm the abse	ence of indicators.)	
Depth	Matrix			Redo	ox Features			
(Inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/3	95	5YR 4/6	5	C	PL	Silty Clay Loam	Fine
2-8	10YR 2/1						Silty Clay Loam	Mixed Matrix
2-8	10YR 4/2	60				······································	Silty Clay Loam	Mixed Matrix
2-8	5YR 3/3	20					Silty Clay Loam	Mixed Matrix
8-14	10YR 4/2	98	10YR 4/6	2		M	Silty Clay Loam	Fine
			MANAGEMENT					
				PACE NAME OF THE PACE OF THE P	·	Management		
Type: C=Conc	centration, D=Depletio	on, RM≃Re	educed Matrix, CS≃(Covered c	or Coated Sand	d Grains.		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Appli							tors for Problematic Hydric Soils ³ :
	Histosol (A1)		-		Sandy Redox	(85)	***************************************	
***************************************	Histic Epipedon (A2)		•	· · · · · · · · · · · · · · · · · · ·	Stripped Matri	` '		2 cm Muck (A10)
	Black Histic (A3)		•		•		except MLRA 1)	Red Parent Material (TF2)
	-lydrogen Sulfide (A4)	١	-		•		except merca 1)	Very Shallow Dark Surface (TF12)
			- 44\		Loamy Gleyed			Other (explain in Remarks)
	Depleted Below Dark : Thick Dark Surface (A	•	-	X	Depleted Matr	• •		
	Thick Dark Surface (A	•	-		Redox Dark S	` '		31
	Sandy Mucky Mineral		-		Depleted Dark	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix ((S4)			Redox Depres	ssions (F8)		problematic.
lestrictive L	.ayer (if present):							
ype:								
epth (inches)	·				-			onto Van V
, , , , , , , , , , , , , , , , , , ,	·		···		_		Hydric Soil Prese	ent? Yes X No
Remarks:	,						Hydric Soil Prese	entr res No
emarks:	gy						Hydric Soil Prese	A NO
emarks:		:					Hydric Soil Prese	antr res X No
Remarks: HYDROLOG Vetland Hyd	gy		ired; check all tha	ıt apply)			Hydric Soil Prese	
Remarks: HYDROLOG Vetland Hyd Primary Indica	GY Irology Indicators		ired; check all tha			Leaves (B9) (I		Secondary Indicators (2 or more required) Water stained Leaves (B9)
Remarks: HYDROLOG Vetland Hyd Primary Indica	GY Irology Indicators ators (minimum of	one requi	ired; check all tha	1				Secondary Indicators (2 or more required)
HYDROLOG Vetland Hyd Primary Indica S	GY Irology Indicators ators (minimum of surface Water (A1)	one requi	ired; check all tha	1	Water stained	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Vetland Hyd Primary Indica S H	GY Irology Indicators ators (minimum of Jurface Water (A1) ligh Water Table (A2)	one requi	ired; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1	4B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOG Vetland Hyd Primary Indica S H	GY Irology Indicators ators (minimum of jurface Water (A1) ligh Water Table (A2) aturation (A3)	one requi	ired; check all tha		Water stained 1, 2, 4A, and 4	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)
HYDROLOG Vetland Hyd Primary Indica S H S	GY Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1)	one requi	ired; check all tha		Water stained 1, 2, 4A, and 4 Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi	4B) 1) ebrates (B13) ide 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
HYDROLOG Vetland Hyd Primary Indica S H	GY Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2) saturation (A3) Vater Marks (B1) ediment Deposits (B2	one requi	ired; check all tha	X	Water stained 1, 2, 4A, and 4 Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi	4B) 1) ebrates (B13) īde Odor (C1) ospheres along	Except MLRA g 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 (Called Second Procession (D2)
AYDROLOG Vetland Hyd Primary Indica S H S W S D X A	GY Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2)	one requi	ired; check all tha	X	Water stained 1, 2, 4A, and 4 Salt Crust (B1 [*] Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re	4B) 1) ebrates (B13) īde Odor (C1) espheres along educed Iron (C	Except MLRA g Living Roots (C3) C4)	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 Geomorphic Position (D2) Shallow Aquitard (D3)
Nemarks: HYDROLOG Vetland Hyd Primary Indica S H S W S D X All	GY Irology Indicators ators (minimum of surface Water (A1) ligh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B2) rrift Deposits (B3) Igal Mat or Crust (B4)	one requi	ired; check all tha	X	Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re	4B) 1) ebrates (B13) ide Odor (C1) pspheres along educed Iron (Ceduction in Plo	Except MLRA g Living Roots (C3) C4) 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 (City Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Nemarks: HYDROLOG Vetland Hyd rimary Indica S H S W S Z X Aire	Irology Indicators ators (minimum of turface Water (A1) digh Water Table (A2) saturation (A3) Water Marks (B1) ediment Deposits (B2) wift Deposits (B3) dgal Mat or Crust (B4) on Deposits (B5)	one requi	- - - -	X	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	4B) 1) bebrates (B13) ide Odor (C1) ospheres along educed Iron (Ceduction in Ploessed Plants (I	Except MLRA g Living Roots (C3) C4) 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
AYDROLOG Vetland Hyd Primary Indica S H S V X In	GY Irology Indicators ators (minimum of durface Water (A1) digh Water Table (A2) dutration (A3) Vater Marks (B1) dediment Deposits (B2) drift Deposits (B3) dgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6	one requi	- - - - - ery (B7)	X	Water stained 1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re	4B) 1) bebrates (B13) ide Odor (C1) ospheres along educed Iron (Ceduction in Ploessed Plants (I	Except MLRA g Living Roots (C3) C4) 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
AYDROLOG Vetland Hyd Srimary Indica S H S V S D X Ai	ators (minimum of ourface Water (A1) ligh Water Table (A2) vaturation (A3) Water Marks (B1) rediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Binundation Visible on Aparsely Vegetated Co	one requi	- - - - - ery (B7)	X	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	4B) 1) bebrates (B13) ide Odor (C1) ospheres along educed Iron (Ceduction in Ploessed Plants (I	Except MLRA g Living Roots (C3) C4) 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
AYDROLOG Vetland Hyd Primary Indica S H S V S In In Si Inl Si Inl	ators (minimum of Jurface Water (A1) ligh Water Table (A2) laturation (A3) Vater Marks (B1) ediment Deposits (B2) ligh Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) lundation Visible on A parsely Vegetated Co	one requi	ery (B7)	X	Water stained 1, 2, 4A, and 4 Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	4B) 1) bebrates (B13) ide Odor (C1) ospheres along educed Iron (Ceduction in Ploessed Plants (I	Except MLRA g Living Roots (C3) C4) 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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
AYDROLOG Vetland Hyd Primary Indica S H S W S In SI In SI Inleid Observator	ators (minimum of ourface Water (A1) ligh Water Table (A2) saturation (A3) Water Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Binundation Visible on Aparsely Vegetated Coations:	one requi	ery (B7) face (B8)	X 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	4B) 1) ebrates (B13) ide Odor (C1) espheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks)	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (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 of the complete Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
AYDROLOG Vetland Hyd Primary Indica S H S U S In S In S In	Irology Indicators ators (minimum of durface Water (A1) digh Water Table (A2) daturation (A3) Vater Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bi dundation Visible on A parsely Vegetated Co ations: Present? Yes	one requi	ery (B7) face (B8) NoX NoX	X 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):	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks)	Except MLRA g Living Roots (C3) C4) 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
AYDROLOG Vetland Hyd Primary Indica S H S W S In SI In SI Inleid Observator	ators (minimum of ourface Water (A1) ligh Water Table (A2) saturation (A3) Water Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Binundation Visible on Aparsely Vegetated Coations: Present? Yes eart? Yes eart? Yes	one requi	ery (B7) face (B8)	X 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	4B) 1) ebrates (B13) ide Odor (C1) espheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks)	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
Primary Indicates Semarks: HYDROLOG Vetland Hyd Primary Indicates Semary Indicates Semar	Irology Indicators ators (minimum of burface Water (A1) ligh Water Table (A2) laturation (A3) Vater Marks (B1) lediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bi lundation Visible on A parsely Vegetated Co ations: Present? Yes lesent? Yes	one requi	ery (B7) face (B8) No X No X No X	Depth (Depth (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 (inches): (inches):	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
Primary Indicates Semarks: HYDROLOG Vetland Hyd Primary Indicates Semary Indicates Semar	ators (minimum of ourface Water (A1) ligh Water Table (A2) saturation (A3) Water Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Binundation Visible on Aparsely Vegetated Coations: Present? Yes eart? Yes eart? Yes	one requi	ery (B7) face (B8) No X No X No X	Depth (Depth (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 (inches): (inches):	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
Primary Indicates Semarks: HYDROLOG Vetland Hyd Primary Indicates Semary Indicates Semar	Irology Indicators ators (minimum of burface Water (A1) ligh Water Table (A2) laturation (A3) Vater Marks (B1) lediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bi lundation Visible on A parsely Vegetated Co ations: Present? Yes lesent? Yes	one requi	ery (B7) face (B8) No X No X No X	Depth (Depth (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 (inches): (inches):	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
Primary Indicates Semarks: HYDROLOG Vetland Hyd Primary Indicates Semary Indicates Semar	Irology Indicators ators (minimum of burface Water (A1) ligh Water Table (A2) laturation (A3) Vater Marks (B1) lediment Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bi lundation Visible on A parsely Vegetated Co ations: Present? Yes lesent? Yes	one requi	ery (B7) face (B8) No X No X No X	Depth (Depth (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 (inches): (inches):	4B) 1) bebrates (B13) ide Odor (C1) bespheres along educed Iron (Ceduction in Ploessed Plants (I in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)

Project/Site:	Oak Ridge Subo	livision	City/County:	McM	linnville/Yamill	Sam	pling Date:	10/2	24/2018
Applicant/Owner:	Premier Develo	oment, LLC			Sta	ate: OR	;	Sampling Point	5
Investigator(s):	CM/J	T	Section, To	ownship, Range:	Se	ction 7, Tov	- vnship 4S,	Range 4W	1993
Landform (hillslope, t	terrace, etc.:)	Flats		Local relief (co	ncave, convex, none):		lone		2
Subregion (LRR):	LR	RA	Lat:	45.23	05 Lo		3.21629	Datum:	
Soil Map Unit Name:		Chehalis	Silty Clay Loan	7	NWI	Classification		— None	
re climatic/hydrolog	ic conditions on the si	ite typical for this t	ime of year?	Yes		No		in in Remarks)	
Are vegetation	Soil or	Hydrology	significantly dis	turbed?	Are "Normal Circums	tances" prese	-	Y	
re vegetation	Soil or				l, explain any answers i		(******		•
				npling point	locations, transe	cts, impor	ant featu	res, etc.	
lydrophytic Vegetati lydric Soil Present?		X No		Is Sampled Ar	ea within				
•	Yes	No.		a Wetlar	nd? Y	es	_ N	°X	•
Vetland Hydrology P	resent? Yes	No	<u> </u>						
Remarks: L ow topographic	relief, but not end	closed Adiace	nt to hase of si	one					
		olobou. Aujubo	iii to base of si	ope.					
/EGETATION -	Use scientific n	ames of plan	ts.						
		absolute	Dominant	Indicator	Dominance Test v	vorksheet:			
ree Stratum (plot	ciro:	% cover	Species?	Status					
1	5126.	_'			Number of Dominant S	•			
2					That are OBL, FACW,	or FAC:		1	(A)
3					Total Number of Domi	nant			
					Species Across All Str			1	(B)
		0	= Total Cover						(10)
apling/Shrub Stratur	11 (plot size:)			Percent of Dominant S	inecies			
1		 -			That are OBL, FACW,		10	00%	(A/B)
2									()
					Prevalence Index	Worksheet:			
1		-			Total % Cover of	_	Multiply by:	_	
					OBL Species		x 1 =	0	
		0	= Total Cover		FACW species		x 2 =	0	
erb Stratum (plot	size: 5)			FAC Species FACU Species		x3=		
Schedonorus		-′ 60	X	FAC	UPL Species		x 4 = x 5 =	0	
2					Column Totals	0	(A)		(B)
							. ,		(2)
					Prevalence Index	c =B/A =	#DI	IV/0!	
	·····								
					Hydrophytic Veget	ation Indica	itors:		
						_ 1- Rapid Te	st for Hydrop	hytic Vegetatio	า
			- T-4 ! O		X		ce Test is >50		
		60	= Total Cover			-	e Index is ≤ 3 rical Adaptati	3.01 ons ¹ (provide s	Innortina
oody Vine Stratum	(plot size:)						ons (provide s separate sheet)	
							Non-Vascular		•
						_		Vegetation ¹ (Ex	plain)
		0	= Total Cover		¹ Indicators of hydric so				
					disturbed or problemati			•	
					Hydrophytic				
Bare Ground in Her	b Stratum	40			Vegetation	Yes	Х	No	

PHS#

6464

SOIL			PHS#	6464	_		Sampling Point:	5
Profile Descri	iption: (Describe to	the depth	needed to docum	ent the indicator or o	onfirm the abs	ence of indicators.)		
Depth	Matrix			Redox Features		_		
(Inches) 0-12	Color (moist)	400	Color (moist)	Type'	Loc ²	Texture	Remarks	
12-14	10YR 3/2 10YR 3/1	100			-	Silty Clay Loam		
14-17	1011(3/1	100				Silty Clay Loam		
	**************************************			A COLUMN TO THE PARTY OF THE PA		Providence of the Control of the Con		
17							C. Committee of the com	
				Covered or Coated Sass otherwise noted			² Location: PL=Pore Lining, M=Matrix.	
	Histosol (A1)	icable to	an LKKS, unies		•	Indica	ators for Problematic Hydric Soi	ils³:
	Histic Epipedon (A2)			Sandy Red Stripped M	` '		2 cm Muck (A10)	
	Black Histic (A3)				` '	(except MLRA 1)	Red Parent Material (TF	
	Hydrogen Sulfide (A4	4)			yed Matrix (F2)	(except includity	Very Shallow Dark Surfa Other (explain in Remari	• •
	Depleted Below Dark	Surface (A	\11)	Depleted M	, ,		Other (explain in Neman	NS)
Т	Thick Dark Surface (A	A12)			Surface (F6)			
	Sandy Mucky Mineral	l (S1)		Depleted D	ark Surface (F7)	³ Indicators of hydrophytic vegetation a	nd wetland
	Sandy Gleyed Matrix	(S4)		Redox Dep	ressions (F8)		hydrology must be present, unless dis problematic.	sturbed or
Restrictive L	Layer (if present):	;						*
						i		
Туре:								
):					Hydric Soil Pres	ent? Yes No	x
Depth (inches) Remarks:						Hydric Soil Pres	ent? Yes No	X
Depth (inches) Remarks:	faint redox (<1%))				Hydric Soil Pres	ent? Yes No	x
Depth (inches) Remarks:)			•	Hydric Soil Pres	ent? Yes No	X
Depth (inches) Remarks: 12-14 Some t	faint redox (<1%))				Hydric Soil Pres	ent? Yes No _	x
Depth (inches) Remarks: 12-14 Some	faint redox (<1%)					Hydric Soil Pres	ent? Yes No	X
Depth (inches) Remarks: 12-14 Some to the sound of the so	faint redox (<1%)	s:	ired; check all th	nat apply)		Hydric Soil Pres		
Depth (inches) Remarks: 12-14 Some f HYDROLOG Wetland Hyd Primary Indica	faint redox (<1%) GY drology Indicators eators (minimum of	s: f one requ	ired; check all th	Water staine		Hydric Soil Pres	ent? Yes No Secondary Indicators (2 or more Water stained Leaves (B)	required)_
Depth (inches) Remarks: 12-14 Some to the second se	faint redox (<1%) GY drology Indicators eators (minimum of Surface Water (A1) digh Water Table (A2)	s: f one requ	iired; check all th				Secondary Indicators (2 or more	required)_
Depth (inches) Remarks: 12-14 Some to the second se	faint redox (<1%) GY drology Indicators cators (minimum of Gurface Water (A1) High Water Table (A2) Saturation (A3)	s: f one requ	lired; check all th	Water staine 1, 2, 4A, an Salt Crust (E	d 4B) 311)	(Except MLRA	Secondary Indicators (2 or more Water stained Leaves (8	required)_
Depth (inches) Remarks: 12-14 Some f HYDROLOG Wetland Hyd Primary Indica	GY drology Indicators cators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Water Marks (B1)	s: f one requ	iired; check all th	Water staine 1, 2, 4A, an Salt Crust (E	d 4B) 311) ertebrates (B13)	(Except MLRA	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table	required) 9) (C2)
Depth (inches) Remarks: 12-14 Some f HYDROLOG Wetland Hyd Primary Indica S H S W	GY drology Indicators sators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3)	s: f one requ	iired; check all th	Water staine 1, 2, 4A, an Salt Crust (I Aquatic Inve	d 4B) 311) ertebrates (B13) ulfide Odor (C1)	(Except MLRA	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some for the second s	GY drology Indicators eators (minimum of Gurface Water (A1) High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3)	s: f one requ 2)	iired; check all th	Water stains 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh	d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres alor	(Except MLRA) ng Living Roots (C3)	Secondary Indicators (2 or more Water stained Leaves (8: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some to the second se	GY drology Indicators cators (minimum of Gurface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Ugal Mat or Crust (B4)	s: f one requ 2)	iired; check all th	Water stains 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh	d 4B) 311) britebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron ((Except MLRA) ng Living Roots (C3) C4)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3)	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some f HYDROLOG Wetland Hyd Primary Indica S H S W Si D Al	GY drology Indicators eators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 ron Deposits (B5)	s: f one requ 2) 32)	iired; check all th	Water staine 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	d 4B) 311) Intebrates (B13) Ulfide Odor (C1) Iizospheres alor Reduced Iron (Reduction in Pl	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5)	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some for the second s	GY drology Indicators sators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Nater Marks (B1) Sediment Deposits (B3) Orift Deposits (B3) Algal Mat or Crust (B4 ron Deposits (B5) Surface Soil Cracks (B	s: f one requ 3) 32) 4)		Water stains 1, 2, 4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S	d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Pl tressed Plants	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6)	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some for the second s	GY drology Indicators eators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 ron Deposits (B5)	s: f one requ 2) 32) 4) Aerial Image	ery (B7)	Water stains 1, 2, 4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S	d 4B) 311) Intebrates (B13) Ulfide Odor (C1) Iizospheres alor Reduced Iron (Reduction in Pl	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5)	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some for the second s	GY drology Indicators sators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Nater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Fron Deposits (B5) Surface Soil Cracks (B1) Surface Soil Cracks (B1) Surface Soil Cracks (B2) Surface Soil Cracks (B3) Surface Soil Cracks (B3) Surface Soil Cracks (B3)	s: f one requ 2) 32) 4) Aerial Image	ery (B7)	Water stains 1, 2, 4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S	d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Pl tressed Plants	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6)	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some if HYDROLOG Wetland Hyd Primary Indica S H S UN Si In Si Field Observa	GY drology Indicators eators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 ron Deposits (B5) Surface Soil Cracks (B chundation Visible on A charsely Vegetated Co	s: f one requ 2) 32) 4) Aerial Image	ery (B7) rface (B8)	Water stains 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Pl tressed Plants	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6)	required) 9) (C2) ial Imagery (C9
Depth (inches) Remarks: 12-14 Some for the second s	GY drology Indicators eators (minimum of Gurface Water (A1) -ligh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 ron Deposits (B5) Surface Soil Cracks (B coundation Visible on A sparsely Vegetated Co vations: Present? Yes	s: f one requ 2) 32) 4) Aerial Image	jery (B7) rface (B8)	Water stains 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	d 4B) 311) britebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Pl tressed Plants ain in Remarks)	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) Frost-Heave Hummocks (D6)	required) 9) (C2) ial Imagery (C9
HYDROLOG Wetland Hyd Primary Indica S H S W Si In	GY drology Indicators eators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Orift Deposits (B3) Orift Deposits (B5) Surface Soil Cracks (B4) For Deposits (B5) Surface Soil Cracks (B5)	s: f one requ 2) 32) 4) Aerial Image	ery (B7) rface (B8)	Water stains 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Pl tressed Plants	(Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A)	Secondary Indicators (2 or more Water stained Leaves (B: (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aer Geomorphic Position (D2 Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6)	required) 9) (C2) ial Imagery (C9

Remarks:

Project/Site:	Oak Ridge			ION DATA FO							
Applicant/Owner:	Premier D			City/County:	MCI	Minnville/Yamil		Sampling Dat		0/24/2018	
Investigator(s):	· remiter D	CM/JT	nen, LLU	A			State:	OR	Sampling Poi		
Landform (hillslope,	terrace etc.\	OMIJI	Fla		ownship, Range			17, Township	4S, Range 4V	<u>V</u>	
Subregion (LRR):	terrace, etc)	LRR				oncave, convex, no	one):	None	Slope (9	%): <u>1</u>	
Soil Map Unit Name		LNN		Lat:	45,23	015	Long:	-123.2162	Datu	m: WGS8	
Are climatic/hydrolog		- 4614-		silty clay loam				ification:	None		
Are vegetation X					Yes		No		xplain in Remark	s)	
Are vegetation	Soil X	****		significantly dis				s" present? (Y/N) <u>N</u>		
, to regulation		01 17	ydrology _	naturally proble	matic? If neede	d, explain any ans	wers in Rem	arks.)			
SUMMARY OF	FINDINGS	– Attac	ch site ma	p showing san	npling point	locations, tra	ansects, i	mportant fea	atures, etc.		
Hydrophytic Vegetati	ion Present?	Yes		No							
Hydric Soil Present?		Yes		No X	is Sampled A	rea within	Yes		No X		
Wetland Hydrology F	Present?	Yes		No	4 *************************************	etiand?			<u> </u>	10 <u>X</u>	
Remarks:					<u> </u>						
Recently mowed	. Also, hard-	packed	gravel in u	pper 3 inches.							
VEGETATION -	Use scien	tific nar				-					
			absolute % cover		Indicator Status	Dominance T	est works	heet:			
Tree Stratum (plot	size:)	70 00 101	- Срескез:	Otatus	Number of Dom	inant Specie	e			
1						That are OBL, F	•		1	(A)	
2						,					
3						Total Number of	Dominant				
4						Species Across	All Strata:		1	(B)	
			0	= Total Cover						Camera .	
Sapling/Shrub Stratur	m (plot size:		_)			Percent of Domi	nant Species	3			
1						That are OBL, F.			100%	(A/B)	
2										······································	
3	****					Prevalence In	dex Work	sheet:			
4				ms		Total % Cover of	<u>f</u>	Multiply	by:		
5						OBL Speci	es	x1=	= 0		
			0	= Total Cover		FACW spec		x2=		_	
Herb Stratum (plot	size:	5)				FAC Speci FACU Speci		x3= x4=		_	
1 Agrostis sp.		, , , , , , , , , , , , , , , , , , ,	80	x	(FAC)	UPL Speci		x4-		-	
2 Leontodon sa	xatilis		10		FACU	Column Tot		0 (A)	0	(B)	
3 Juncus patens	5		5		FACW		-	` ′		_,/	
4						Prevalence	Index =B/A	=	#DIV/0!		
5										_	
6						Hydrophytic \	/egetation	Indicators:			
8							1- R	Rapid Test for Hyd	drophytic Vegetat	ion	
0			O.E	T. 10		>		ominance Test is			
			95	= Total Cover				revalence Index i orphological Ada		ounnerling	
Voody Vine Stratum	(plot size:)					in Remarks or o			
1			-					Vetland Non-Vaso		G()	
2				,				olematic Hydroph		Explain)	
			0	= Total Cover		¹ Indicators of hyd		vetland hydrology			
				-		disturbed or prob		. 0.		-	
6 Bare Ground in Her	b Stratum		5			Hydrophytic Vegetation		Yes X	\$1 _		
						i - egetatiOH		Yes X	No	,	

% Bare Ground in Herb Stratum

Site recently mowed; however, vegetation is identifiable.

SOIL	

PHS #

Sa	mr	lina	Poi	nt.
va	HIP	יוויויויויוי	1 01	ıπ.

A	

Depth	Matrix		metaca to accum		x Features	iniinii ille absi	ence of indicators.)	
(Inches)	Color (moist)	- %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/3	97	7.5YR 4/6	3	С	PL	Silty Clay Loam	Gravel; Fine
3-8	10YR 3/2	100					Silty Clay Loam	Olavel, Time
8-19	7.5YR 3/1	100						
							Silty Clay Loam	
						· · · · · · · · · · · · · · · · · · ·		programme and the second secon
					***************************************	Name and the same		
I							The second secon	
	entration, D=Depletion							² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli	cable to	all LRRs, unless	s otherw	ise noted.)		Indica	tors for Problematic Hydric Soils ³ :
, , , , , , , , , , , , , , , , , , ,	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
	fistic Epipedon (A2)				Stripped Mat	rix (\$6)		Red Parent Material (TF2)
	Black Histic (A3)				Loamy Muck	y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4)	•			Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A	11)		Depleted Mat	rix (F3)		
	hick Dark Surface (A	12)			Redox Dark S	Surface (F6)		
	Sandy Mucky Mineral	(S1)			Depleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix ((S4)			Redox Depre	ssions (F8)		hydrology must be present, unless disturbed or problematic.
Restrictive L	ayer (if present):							
Гуре:	,							
Depth (inches					_			
Remarks:					-		Hydric Soil Prese	ent? Yes NoX
		3" is mos	st likely respons	ible for i	edox on po	ore linings.		
HYDROLO:			st likely respons	ible for I	redox on po	ore linings.		
HYDROLOG	GY	::			edox on po	ore linings.		Secondary Indicators (2 or more required)
HYDROLOG Vetland Hyd Primary Indic	GY rology Indicators	::		at apply) \	Water stained	Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOG Vetland Hyd Primary Indic S	GY rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2)	: one requ		at apply) \		Leaves (B9) (Except MLRA	
HYDROLOG Vetland Hyd Primary Indic S H	GY Irology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3)	: one requ		at apply)	Water stained	Leaves (B9) (4B)	Except MLRA	Water stained Leaves (B9)
HYDROLOG Vetland Hyd Primary Indic S H	Irology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1)	: one requ		at apply)	Nater stained i, 2, 4A, and Salt Crust (B1	Leaves (B9) (4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Vetland Hyd Primary Indic S H S V	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2)	: one requ		at apply)	Nater stained i, 2, 4A, and Salt Crust (B1 Aquatic Invert	Leaves (B9) (4B) 1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Vetland Hyd Primary Indic S H S V	Irology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1)	: one requ		at apply)	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Vetland Hyd Primary Indic S H S V	Irology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) Igal Mat or Crust (B4)	one requ		at apply)	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1)	g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
HYDROLOG Vetland Hyd Primary Indic S H S V	irology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	one requ		at apply)	Nater stained i, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sult Dxidized Rhiz Presence of R	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along	g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)
HYDROLOG Vetland Hyd Primary Indic S 	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B	one requ	ired; check all the	at apply)	Nater stained i, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOG Vetland Hyd Primary Indic S V S U In	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Baundation Visible on A	one requ	ired; check all that	at apply)	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sult Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
HYDROLOG Vetland Hyd Primary Indic S H S V S In In S	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) //ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Aparsely Vegetated Co	one requ	ired; check all that	at apply)	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sult Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C) eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Vetland Hyd Primary Indic S V S C A Ir S Ir S ield Observ	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Biundation Visible on Aparsely Vegetated Contations:	one requ	ired; check all that	at apply)	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sult Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C) eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Vetland Hyd Primary Indic S H S V S In In S	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Biundation Visible on Aparsely Vegetated Contations:	one requ	ired; check all that	at apply)	Nater stained i, 2, 4A, and Salt Crust (B1 Aquatic Invert dydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C) eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Vetland Hyd Primary Indic S V S C A Ir S Ir S ield Observ	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B1) urface Soil Cracks (B1) arracely Vegetated Coations:	one requ	ired; check all that	at apply)	Nater stained i, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dixidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C) eduction in Plo	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 (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hyd Primary Indic S V S In In S Ir S Ield Observ urface Water F	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Boundation Visible on Aparsely Vegetated Coations: Versent? Yes ent? Yes	one requ	ery (B7)	at apply) X X F F C Depth (i	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (Ceduction in Ploessed Plants (in Remarks)	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hyd Primary Indic S H S V S In In S ield Observ urface Water F /ater Table Presented in the second secon	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Biundation Visible on Aparsely Vegetated Cotations: Present? Yes sent? Yes criringe)	one requ	ery (B7) face (B8) No X No X No X	at apply) X X F S C Depth (i Depth (i	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (Ceduction in Ploessed Plants (In Remarks) >14 >14	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hyd Primary Indic S H S V S In In S ield Observ urface Water F /ater Table Presented in the second secon	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Boundation Visible on Aparsely Vegetated Coations: Versent? Yes ent? Yes	one requ	ery (B7) face (B8) No X No X No X	at apply) X X F S C Depth (i Depth (i	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (Ceduction in Ploessed Plants (In Remarks) >14 >14	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hyd Primary Indic S H S V S In In S ield Observ urface Water F /ater Table Presented in the second secon	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Biundation Visible on Aparsely Vegetated Cotations: Present? Yes sent? Yes criringe)	one requ	ery (B7) face (B8) No X No X No X	at apply) X X F S C Depth (i Depth (i	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (Ceduction in Ploessed Plants (In Remarks) >14 >14	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hyd Primary Indic S H S V S In In S ield Observ urface Water F /ater Table Presented in the second secon	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Biundation Visible on Aparsely Vegetated Cotations: Present? Yes sent? Yes criringe)	one requ	ery (B7) face (B8) No X No X No X	at apply) X X F S C Depth (i Depth (i	Nater stained I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (Ceduction in Ploessed Plants (In Remarks) >14 >14	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

6464

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

Project/Site:	Oak Ridge Subd	livision	City/County:	McN	innville/Yamill	Sampling Date:	10/24	/2018
Applicant/Owner:	Premier Develor	oment, LLC			State:	. •	Sampling Point:	7
Investigator(s):	CM/J	T	Section, To	ownship, Range:		17, Township 49	_	2
Landform (hillslope, t	errace, etc.:)	Flats		Local relief (co	ncave, convex, none):	None	Slope (%):	1
Subregion (LRR):	LR	RA	Lat:	45.230			Datum:	
Soil Map Unit Name:		Waldo s	– ilty clay loam			sification:	None	110004
Are climatic/hydrolog	ic conditions on the si			Yes			ain in Remarks)	
	Soil X or				Are "Normal Circumstance	`	N	
Are vegetation					d, explain any answers in Ren			
SUMMARY OF	FINDINGS - Att	ach site map	showing san	npling point	locations, transects,	important featu	ıres, etc.	
Hydrophytic Vegetation	on Present? Yes	X No		lla Camania d'As		-		
Hydric Soil Present?	Yes	X No		is Sampled Ai	rea within nd? Yes	X I	No	
Wetland Hydrology P	resent? Yes	X No						
Remarks:								*************************************
Site has been mo	wed and may hav	e been heavily	disturbed ove	r the summer				
			_					
VEGETATION -	Use scientific n	ames of plant	s.					
		absolute % cover	Dominant Species?	Indicator	Dominance Test work	sheet:		
Tree Stratum (plot	size:)	Species?	Status	Number of Dominant Specie	26		
1		- ′			That are OBL, FACW, or FA		1 (/	۹)
2					, , , , , , , , , , , , , , , , , , ,		(/	~)
3				***************************************	Total Number of Dominant			
4					Species Across All Strata:		2 (E	3)
		0	= Total Cover				`	,
Sapling/Shrub Stratun	1 (plot size:)			Percent of Dominant Specie	ıs.		
1					That are OBL, FACW, or FA		50% (A	√B)
2							٧.	,
3					Prevalence Index Worl	sheet:		
4					Total % Cover of	Multiply by:	_	
5			· · · · · · · · · · · · · · · · · · ·		OBL Species	x 1 =	0	
		0	= Total Cover		FACW species	x 2 =	0	
Herb Stratum (plot s	size: 5)			FAC Species	50 x3=	150	
1 Leontodon sax		-′ 50	Х	FACU	FACU Species UPL Species	x4=	<u>200</u>	
2 Agrostis sp.		50	X	(FAC)	Column Totals	x 5 =	350 (B	Λ.
3					- Totalo	(1)	(2)	7
4				-	Prevalence Index =8/A	۱= 3	3.50	
5								
6		2 1 			Hydrophytic Vegetation	n Indicators:		
7					1-	Rapid Test for Hydro	phytic Vegetation	
8			·			Dominance Test is >5		
		100	= Total Cover			Prevalence Index is ≤		
Voody Vine Stratum	(plot size:)				Norphological Adapta		porting
1	(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	,				a in Remarks or on a <i>N</i> etland Non-Vascula		
2						blematic Hydrophytic		lain\
		0	= Total Cover		Indicators of hydric soil and			
					disturbed or problematic.		ace no present, un	
					Hydrophytic			
A Baro Ground in 11-1	h Ctratum	^						
% Bare Ground in Herl	b Stratum	0			Vegetation Present?	Yes X	No	

SOIL			PHS#	646	<u>)4</u>			Sampling Point: 7
Profile Descri	iption: (Describe to t	the depth	needed to docume	ent the indi	cator or co	nfirm the abse	nce of indicators.)	
Depth	Pepth Matrix			Redox Features				
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 5/1	90	7.5YR 4/6	10	<u> </u>	PL	Silty Clay Loam	Gravel; Fine
<u>4.12</u>	75VR 3/1	- ăă-	- 1 575 2/6 -		_~_		Sitty Clay Frame	Fime
							,	
							,	
		1011		Albana agam			1 Mr. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
								
1Type: C=Conc	centration, D=Depletion	on PM=R	advand Matrix CQ-	Carron or	O	100		2
	Indicators: (Appli						Indica	² Location: PL=Pore Lining, M=Matrix.
	Histosol (A1)	Oubic ic	an Living, amou		se noted.) Sandy Redo:		muica	ators for Problematic Hydric Soils ³ :
	Histic Epipedon (A2)				Stripped Mat			2 cm Muck (A10)
	Black Histic (A3)					ແນ (ວວ) ເy Mineral (F1) (fevcent MI RA 1)	Red Parent Material (TF2)
	Hydrogen Sulfide (A4	n				ed Matrix (F2)	except mann 1	Very Shallow Dark Surface (TF12)
	Depleted Below Dark		A11)		Depleted Ma	, ,		Other (explain in Remarks)
	Thick Dark Surface (A		,			Surface (F6)		
<u> </u>	Sandy Mucky Mineral	•				rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	• •				essions (F8)		hydrology must be present, unless disturbed or problematic.
Restrictive I	Layer (if present):	<u>` </u>				,	T	pi esternate.
Type:	, e. (p. c , .							
Depth (inches)	y.						Martin Call Dree	
Remarks:	<i>'</i> -				,		Hydric Soil Pres	ent? Yes X No No
	acked gravel 1-4".	1_						
	3	•						
			·					
HYDROLO								
Wetland Hyd	drology Indicators	5:						
Primary Indic	cators (minimum of	fone requ	uired; check all th	nat apply)				Secondary Indicators (2 or more required)
s	Surface Water (A1)					d Leaves (B9) (Except MLRA	Water stained Leaves (B9)
F	High Water Table (A2)	.)		1	, 2, 4A, and	4B)		(MLRA1, 2, 4A, and 4B)
8	Saturation (A3)			s	Salt Crust (B	11)		Drainage Patterns (B10)
	Water Marks (B1)			Aquatic Invertebrates (B13)				Dry-Season Water Table (C2)
	Sediment Deposits (B	2)		Hydrogen Sulfide Odor (C1)				Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			X Oxidized Rhizospheres along Living Roots				Geomorphic Position (D2)
	Algal Mat or Crust (B4	,)				Reduced Iron (0	•	Shallow Aquitard (D3)
	ron Deposits (B5)						owed Soils (C6)	Fac-Neutral Test (D5)
	Surface Soil Cracks (E	•	· · · · · · / [5/25]			ressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	nundation Visible on A Sparsely Vegetated C	-	• • • • •		ther (Explai	in in Remarks)		Frost-Heave Hummocks (D7)
		Officave Su	nace (Do)				7,133,143,143	-
Field Observ	_					ļ		
Surface Water I	-		No X	Depth (ir				
Water Table Pre	-		No X	Depth (ir	_	>12	Wetland Hydro	ology Present?
Saturation Pres (includes capillary	_		No X	Depth (ir	nches):	>12		YesX No
Describe Recor	rded Data (stream gau	uge, monit	oring well, aerial ph	notos, previo	us inspectio	ns). if available		
	, -					110/1	•	
Remarks:				***************************************	a	THE RESERVE		
Oxidized rhiz	zospheres are like	ely the re	esult of compac	tion.				

6464 WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Oak Ridge Subdivision City/County: McMinnville/Yamill Sampling Date: Applicant/Owner: Premier Development, LLC State: OR Sampling Point: Investigator(s): CM/JT Section, Township, Range: Section 17, Township 4S, Range 4W Landform (hillslope, terrace, etc.:) Slope/Flats Local relief (concave, convex, none): None ____LRR A Subregion (LRR): Long: -123.21628 Lat: 45.23007 Datum: **WGS84** Soil Map Unit Name: Waldo silty clay loam NWI Classification: None Are climatic/hydrologic conditions on the site typical for this time of year? No (if no, explain in Remarks) Yes Are vegetation X Soil X or Hydrology significantly disturbed? Are "Normal Circumstances" present? (Y/N) Are vegetation Soil naturally problematic? If needed, explain any answers in Remarks.) or Hydrology SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes is Sampled Area within Hydric Soil Present? X No Yes Yes X a Wetland? Wetland Hydrology Present? Yes Sample area is disturbed from motor vehicles and upper part of soil contains hard-packed gravel. VEGETATION - Use scientific names of plants. absolute Dominant Indicator Dominance Test worksheet: % cover <u>Tree Stratum</u> (plot size: Number of Dominant Species That are OBL, FACW, or FAC: 3 Total Number of Dominant Species Across All Strata: (B) = Total Cover Sapling/Shrub Stratum (plot size: ____) Percent of Dominant Species That are OBL, FACW, or FAC: 100% (A/B) 3 Prevalence Index Worksheet: Total % Cover of Multiply by: **OBL Species** x 1 = FACW species x2 =**FAC Species** x3 =Herb Stratum (plot size: **FACU Species** x 4 = 1 Agrostis capillaris FAC **UPL Species** 2 Unidentified grass (FAC) Column Totals 3 Leontodon saxatilis Prevalence Index =B/A = #DIV/0! 6 Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation 2- Dominance Test is >50% = Total Cover 3-Prevalence Index is ≤ 3.01 4-Morphological Adaptations (provide supporting Woody Vine Stratum (plot size: data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain)

Remarks:
Disturbed soils, driving has created bare areas; however, remaining vegetaion is identifiable.

% Bare Ground in Herb Stratum

= Total Cover

¹Indicators of hydric soil and wetland hydrology must be present, unless

Yes X

disturbed or problematic.

Hydrophytic

Vegetation

Present?

^	_		
	"	п	

PHS	#	

Sampling Point:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features	
0-1 10YR 4/1 95 10YR 4/4 5 C PL Silty Clay Loam Fine 1-6 10YR 4/1 95 10YR 4/4 3 C M Silty Clay Loam Fine 1-6 10YR 4/4 2 C PL Silty Clay Loam Fine 6-7 10YR 5/2 90 10YR 4/6 10 C M Silty Clay Loam Mixed matrix, gravel 10% 7-12 10YR 3/6 40 Silty Clay Loam Mixed matrix, gravel 10% 7-12 5YP 3/2 40 Silty Clay Loam Mixed matrix, gravel 10%	
1-6	
1-6 10YR 4/4 2 C PL Silty Clay Loam Fine 6-7 10YR 5/2 90 10YR 4/6 10 C M Silty Clay Fine 7-12 10YR 2/1 50 Silty Clay Loam Mixed matrix, gravel 10% 7-12 10YR 3/6 40 Silty Clay Loam Mixed matrix, gravel 10% 7-13 5VR 3/2 40 Silty Clay Loam Mixed matrix, gravel 10%	
6-7 10YR 5/2 90 10YR 4/6 10 C M Silty Clay Fine 7-12 10YR 2/1 50 Silty Clay Loam Mixed matrix, gravel 10% 7-12 10YR 3/6 40 Silty Clay Loam Mixed matrix, gravel 10%	
7-12 10YR 2/1 50 Silty Clay Loam Mixed matrix, gravel 10% 7-12 10YR 3/6 40 Silty Clay Loam Mixed matrix, gravel 10% 7-13 5VP 3/2 10 Mixed matrix, gravel 10%	
7-12 10YR 3/6 40 Silty Clay Loam Mixed matrix, gravel 10%	
7.12 EVD 2/2 40	
7-12 5YR 3/3 10 Silty Clay Loam Mixed matrix, gravel 10%	700048h
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix	· · · · · · · · · · · · · · · · · · ·
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric So	
Listand (AA)	115 ·
Histo Enipodon (A2)	F0\
Plack Histin (A2)	•
Hudragon Sulfido (A4)	, ,
Otter (explaint in relia	rks)
Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Pepleted Dark Surface (E7) Sandy Mucky Mineral (S1)	and watland
hydrology must be present, unless d	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) problematic. Restrictive Layer (if present):	
Type:	
Depth (inches): Hydric Soil Present? Yes X No	
HYDROLOGY Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more	required)
Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (Except MLRA)	
High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B)	
Saturation (A3) Salt Crust (B11) Drainage Patterns (B10)	
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table	
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Ae	• •
Drift Deposits (B3) X Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)	-,
Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5)	
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6	(LRR A)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks	
Sparsely Vegetated Concave Surface (B8)	• /
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No X Depth (inches): >12 Wetland Hydrology Present?	
Saturation Present? Yes No X Depth (inches): >12 Yes X No (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Oxidized rhizospheres along living roots is most likely caused by compaction.	·

HS#

6464

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

Investigator(s): CN Landform (hillslope, terrace, etc.:)	elopment, LLC //JT Flats LRR A	Section, To	ownship, Range:	1920	State:		Sampling Point	. 9
Landform (hillslope, terrace, etc.:) Subregion (LRR): Soil Map Unit Name: Are climatic/hydrologic conditions on the Are vegetation X Soil X	Flats	Section, To	wnship, Range:		Castia	- 47 T		
Subregion (LRR): Soil Map Unit Name: Are climatic/hydrologic conditions on the Are vegetation X Soil X					Sectio	n 17, townsni	p 4S, Range 4W	
Soil Map Unit Name: Are climatic/hydrologic conditions on the Are vegetation X Soil X	LRR A		Local relief (co	oncave, convex, i		None	Slope (%)	: 2
Are climatic/hydrologic conditions on the Are vegetation X Soil X		Lat:	45.230	006	Long:	-123.2163		
Are vegetation X Soil X	Waldo s	ilty clay loam			NWI Cla	ssification:	None	unio
	e site typical for this tir	ne of year?	Yes	Х	No	(if no,	explain in Remarks)	
	or Hydrology	significantly dist	turbed?	Are "Normal	-	ces" present? (Y/		
								-
OLIMANA DV. OF TIME								
SUMMARY OF FINDINGS -			npling point	locations, t	ransects	, important fe	etures, etc.	
Hydrophytic Vegetation Present? Ye			Is Sampled A	rea within				
Hydric Soil Present? Ye		X	a Wetla	nd?	Yes_		No X	_
Wetland Hydrology Present? Ye	es X No							
Remarks: Aerial imagery shows that the a was recently mowed.			e a two-track	road. There i	is hard-pa	cked gravel in	the upper one or	so inches. Site
VEGETATION - Use scientific			> -1:,1	T				
	absolute % cover	Dominant Species?	Indicator Status	Dominance	: Test worl	ksheet:		
Tree Stratum_ (plot size:)			Number of Dor	minant Spec	cies		
1				That are OBL,	, FACW, or F	AC:	1	(A)
2								· ·
3				Total Number	of Dominant	t		
4				Species Acros	ss All Strata:	*****	1	(B)
	0	= Total Cover						
Sapling/Shrub Stratum (plot size:)			Percent of Don	minant Spec	ies		
1				That are OBL,	, FACW, or f	FAC:	100%	(A/B)
3								
4				Prevalence		rksheet:		
5				Total % Cover		<u>Multipl</u>		
	0	= Total Cover		OBL Spe	_	x1		
		- Total Cover		FAC Spe		x2 x3		
Herb Stratum (plot size: 5)			FACU Spe		x 4		
1 Agrostis sp.	90	X	(FAC)	UPL Spe	****	x5		
2 Gallium sp.	1		(FAC)	Column To	Totals	0 (A)	0	(B)
3 Taraxacum officinale	<1		FACU					
5				Prevalend	nce Index ≃B	/A =	#DIV/0!	
6								
7				Hydrophytic		on Indicators:		
8	-						lydrophytic Vegetatio	n
	91	= Total Cover				 Dominance Test Prevalence Index 	_	
		70101 00701					laptations¹ (provide s	upporting
Voody Vine Stratum (plot size:)				di	ata in Remarks or	on a separate sheet)
1					5.	· Wetland Non-Va	scular Plants ¹	
2			——————————————————————————————————————				ohytic Vegetation¹ (Ex	
	0	= Total Cover		Indicators of hy disturbed or pro Hydrophytic	oblematic.	d wetland hydrolo	gy must be present, a	ınless
6 Bare Ground in Herb Stratum	9			Vegetation Present?	*	Yes X	No_	The state of the s

_	_	

PHS#

6464

Sampling Point:

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	e depin n	reeded to docume			firm the abse	ence of indicators.)	
Depth Matrix (Inches) Color (moist)	%	Color (moist)	Redo %	x Features Type ¹	Loc ²		
0-1 10YR 4/2	60	7.5YR 4/4				Texture	Remarks
0-1 10YR 3/2	30	7.51K 4/4	10	<u>C</u>	PL_	Silty Clay Loam	Gravel; Fine
1-14 7.5YR 3/2						Silty Clay Loam	Gravel
1-14 7.51R 3/2	100					Silty Clay Loam	
							
	***************************************	77.77.701 law		-	roop this area a		
			e				
¹ Type: C=Concentration, D=Depletion	, RM=Red	duced Matrix, CS=	Covered or	Coated Sand	l Grains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applica							tors 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)					` '	except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)				Loamy Gleye			,
Depleted Below Dark Su	urface (A1	[1)		Depleted Mati	` ,		Other (explain in Remarks)
Thick Dark Surface (A12		• • •		Redox Dark S	. ,		
Sandy Mucky Mineral (S	•				uпасе (F6) (Surface (F7)	:	³ Indicators of hydrophytic vegetation and wetland
Sandy Gleyed Matrix (S				-	` ′		hydrology must be present, unless disturbed or
	4)			Redox Depres	ssions (F8)		problematic.
Restrictive Layer (if present):							
Type:				-			
Depth (inches):				_		Hydric Soil Prese	ent? Yes No X
HYDROLOGY Wetland Hydrology Indicators:							
Wetland Hydrology Indicators:							
Wetland Hydrology Indicators: Primary Indicators (minimum of or	ne requi	red; check all th					Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1)	ne requi	red; check all th	\			Except MLRA	Water stained Leaves (B9)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2)	ne requi	red; check all th	\	I, 2, 4A, and 4	IB)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3)	ne requi	red; check all th	1	I, 2, 4A, and 4 Salt Crust (B1	IB) 1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne requi	red; check all th	1	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte	IB) 1) ebrates (B13)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ne requi	red; check all th	\ 1 	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf	B) brates (B13) de Odor (C1)	·	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne requi	red; check all th	X (I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhizo	BB) 1) ebrates (B13) ide Odor (C1) ospheres alon	g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ne requi	red; check all th	X C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of R	BB) bbrates (B13) ide Odor (C1) bspheres along educed Iron (C	g Living Roots (C3) C4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of or 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)		red; check all th	X C F	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of R Recent Iron Re	BB) abrates (B13) ide Odor (C1) aspheres along educed Iron (Ceduction in Pla	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of or 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)			X C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C eduction in Placesed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of oil Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer) rial Image	ery (B7)	X C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of R Recent Iron Re	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C eduction in Placesed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer) rial Image	ery (B7)	X C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C eduction in Placesed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Aerose Sparsely Vegetated Constitutions:) rial Image	ery (B7) face (B8)	X C	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of Ri Recent Iron Re Stunted or Stre Other (Explain	BB) abrates (B13) de Odor (C1) aspheres along educed Iron (C eduction in Placesed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Aeron Sparsely Vegetated Concertions: Surface Water Present? Yes) rial Image	ery (B7) ace (B8)	X C F S C C	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of R Recent Iron Re Stunted or Stre Other (Explain	BB) abrates (B13) ide Odor (C1) aspheres along educed Iron (C eduction in Plo assed Plants (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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicators (minimum of or 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 Aero Sparsely Vegetated Concentrations: Surface Water Present? Yes Water Table Present? Yes) rial Image	ery (B7) face (B8) No X	X (C) Depth (i)	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain	BB) 1) abbrates (B13) ide Odor (C1) abspheres along educed Iron (C eduction in Plo assed Plants (in Remarks)	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Aeron Sparsely Vegetated Concertions: Surface Water Present? Yes) rial Image	ery (B7) ace (B8)	X C F S C C	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain	BB) abrates (B13) ide Odor (C1) aspheres along educed Iron (C eduction in Plo assed Plants (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 (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Aeron Sparsely Vegetated Concerts Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	rial Image cave Surf	Pry (B7) Face (B8) No X No X No X	X C F F F C Depth (i Depth (i	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dxidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain Inches):	BB) 1) abrates (B13) ide Odor (C1) aspheres along educed Iron (C eduction in Plo assed Plants (in Remarks) >12 >12	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of oil 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 Aere Sparsely Vegetated Concentrations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (Includes capillary fringe)	rial Image cave Surf	Pry (B7) Face (B8) No X No X No X	X C F F F C Depth (i Depth (i	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dxidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain Inches):	BB) 1) abrates (B13) ide Odor (C1) aspheres along educed Iron (C eduction in Plo assed Plants (in Remarks) >12 >12	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conditions: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (Includes capillary fringe) Describe Recorded Data (stream gauge	rial Image cave Surf	Pry (B7) Face (B8) No X No X No X	X C F F F C Depth (i Depth (i	I, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dxidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain Inches):	BB) 1) abrates (B13) ide Odor (C1) aspheres along educed Iron (C eduction in Plo assed Plants (in Remarks) >12 >12	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

,	WETLAND I	DETERMINATIO	N DATA FO	RM - West	ern Mountai	ns, Valle	eys, and Coast	PHS # Region	6464
Project/Site:	Oak Ridge S	Subdivision	City/County:	McN	/linnville/Yamil	l	Sampling Date:	10/1	8/2018
Applicant/Owner:	Premier Dev	relopment, LLC				State:	OR s	Sampling Point:	10
Investigator(s):	C	M/JT	Section, To	wnship, Range:		Section	17, Township 4S,	Range 4W	
Landform (hillslope,	terrace, etc.:)	Slope		Local relief (co	oncave, convex, n		None	Slope (%):	10
Subregion (LRR):		LRR A	Lat:	45.22	365	Long:	-123.21581	Datum:	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name);	Woodb	 urn silt loam			_	sification:	– None	
Are climatic/hydrolo	gic conditions on t	the site typical for this ti	me of year?	Yes	X			n in Remarks)	
Are vegetation	Soil	or Hydrology	significantly dist	urbed?	Are "Normal C		s" present? (Y/N)	•	
Are vegetation	Soil		•		d, explain any ans				•
SUMMARY OF	FINDINGS -	Attach site map	_				•	as atr	
Hydrophytic Vegeta		res X No					mportant reatar	co, cto.	
Hydric Soil Present?		res X No		Is Sampled A		Yes	X N	n	
Wetland Hydrology	Present?	res X No		a Wetla	na?	163	<u> </u>	D	
Remarks:									
VEGETATION	- Use scientif	ic names of plan	ts.						
		absolute	Dominant	Indicator	Dominance '	Test works	sheet:		
Tree Stratum (plo	t size:	% cover	Species?	Status	Number of Desi	t Ot.	-		
1					Number of Dom	•		4	(4)
2			· · · · · · · · · · · · · · · · · · ·		That are OBL, F	ACVV, OI FA	.C:	<u> </u>	(A)
3					Total Number o	f Dominant			
4					Species Across	All Strata:		1	(B)
		0	= Total Cover						, ,
Sapling/Shrub Stratu	⊥m (plot size:_)			Percent of Dom	inant Species	s		
1					That are OBL, F	ACW, or FA	\C: 10	0%	(A/B)
2									
3					Prevalence l	ndex Work	sheet:		
4	····	<u> </u>			Total % Cover of	f	Multiply by:	_	
5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				OBL Spec	ies	x 1 =	0	
		0	= Total Cover		FACW spe		x 2 =	0	
derb Stratum (plo	t size: 5)			FACU Spec		x3= x4=	0	
1 Holcus lanatu	ıs	80	X	FAC	UPL Spec		x 5 =	0	
2 <i>Phalaris arun</i>	dinacea	10		FACW	Column To		0 (A)		(B)
3 Alopecurus p	ratensis	10		FAC		-			,
4					Prevalence	e Index =B/A	.= #DI	V/0I	
5									
6 			-		Hydrophytic	Vegetation	ı Indicators:		
8							Rapid Test for Hydroph		1
		100	= Total Carra				Dominance Test is >50	_	
		100	= Total Cover				revalence Index is≤3 forphological Adaptati		upporting
Voody Vine Stratum	(plot size:)					a in Remarks or on a s		
1							Vetland Non-Vascular		
						***************************************	blematic Hydrophytic		nlain)
2						110	bielitatic riyulopitytic	vegetation (Ex	pianij

Hydrophytic Vegetation Present?

Yes X

No_

% Bare Ground in Herb Stratum

Remarks:

o	u	ш	Ŀ

PHS#	6464

Sampling Point:

Depth	ption: (Describe to t Matrix				Features	illiani tile aps	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	7.5YR 3/2	100			2		Silty Clay Loam	
5-10	7.5YR 4/1	80	5YR 5/8	10	C	PL	Silty Clay Loam	Fine
5-10			5YR 5/8	10	<u>C</u>	M	Silty Clay Loam	Fine
10-12	7.5YR 4/1	90	5YR 4/6	10	c	M	Silty Clay Loam	Fine
		DDIO CONTRACTOR A		-				
lydric Soil I	entration, D=Depletion	on, RM≂Red cable to a	duced Matrix, CS=C	overed or	Coated San	d Grains.		² Location: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils ³ :
<u> </u>	listosol (A1)		-		Sandy Redox	(S5)		2 cm Muck (A10)
	fistic Epipedon (A2)		-		Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A3)			L	oamy Muck	y Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TF12)
	lydrogen Sulfide (A4))	-	L	oamy Gleye.	d Matrix (F2)		Other (explain in Remarks)
X	Depleted Below Dark	Surface (A1	11)	ΧC	Depleted Mai	trix (F3)		
T	hick Dark Surface (A	12)	_	F	Redox Dark 8	Surface (F6)		
	andy Mucky Mineral	(S1)	_			k Surface (F7)	; i	³ Indicators of hydrophytic vegetation and wetland
9	andy Gleyed Matrix ((S4)	-		Redox Depre			hydrology must be present, unless disturbed or problematic.
	ayer (if present):		_					рговентанс.
	ayor (ii precenty.							
ype:								
emarks:							Hydric Soil Prese	ent? Yes X No
emarks:		:					Hydric Soil Prese	ent? Yes X No
emarks: IYDROLOC Vetland Hyd	SY rology Indicators		red: check all tha	t apply)			Hydric Soil Prese	
emarks: IYDROLOC /etland Hyd rimary Indica	GY rology Indicators ators (minimum of		red; check all tha		(ator stained	Legges (PO)		Secondary Indicators (2 or more required)
emarks: IYDROLOG /etland Hyd rimary Indica	GY rology Indicators ators (minimum of urface Water (A1)		red; check all that	W			Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
YDROLOC Vetland Hyd rimary Indica SI	GY rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2)		red; check all that	W 1,	2, 4A, and	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOC letland Hyd rimary Indica Si H	orology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3)		red; check all tha	 1, S	2,4A, and alt Crust (B1	4B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
YDROLOC Vetland Hyd rimary Indica S H	FY rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1)	one requi	red; check all that		2,4A, and alt Crust (B1 quatic Invert	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)
YDROLOC Vetland Hyd rimary Indica Si H	orology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2)	one requi	red; check all that	W 1, A H	2,4A, and alt Crust (B1 quatic Invert ydrogen Sult	4B) 1) ebrates (B13) fide 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 (
emarks: IYDROLOG /etland Hyd rimary Indica Si H Si W So	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2)	one requi	red; check all that		2, 4A, and alt Crust (B1 quatic Inverty ydrogen Sulixidized Rhiz	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon	Except MLRA g 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 (Geomorphic Position (D2)
emarks: IYDROLOC /etland Hyd rimary Indica S H S: W Sc	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2 rift Deposits (B3) gal Mat or Crust (B4)	one requi	red; check all that		2,4A, and alt Crust (B1 quatic Inverteydrogen Sult xidized Rhizesence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (G	Except MLRA g Living Roots (C3) C4)	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 (Geomorphic Position (D2) Shallow Aquitard (D3)
emarks: IYDROLOC /etland Hyd rimary Indica S H S W S D Al	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	one requi	red; check all that	X O Pr	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhiz resence of Recent Iron Re	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Plo	Except MLRA g Living Roots (C3) C4) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
emarks: IYDROLOC Vetland Hyd rimary Indica Si H Si Vi Al Irc	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6	one requi	- - - - -	X O PI RG	2, 4A, and alt Crust (B1 quatic Invertydrogen Sultxidized Rhiztesence of Recent Iron Runned or Strunted or Strunte	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOC Vetland Hyd rimary Indica Si W Si On Al	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	one requi		X O PI RG	2, 4A, and alt Crust (B1 quatic Invertydrogen Sultxidized Rhiztesence of Recent Iron Runned or Strunted or Strunte	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Plo	Except MLRA g Living Roots (C3) C4) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
emarks: IYDROLOC /etland Hyd rimary Indica Si W Si Al Irc Si In Sr	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on A parsely Vegetated Co	one requi		X O PI RG	2, 4A, and alt Crust (B1 quatic Invertydrogen Sultxidized Rhiztesence of Recent Iron Runned or Strunted or Strunte	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOC Vetland Hyd rimary Indica Si W Si Di Al Irr Si In Sp eld Observa	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) inft Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) ourface Soil Cracks (B6 ourface Soil Cracks (B6 ourface) Vegetated Coations:	one requi	ery (B7)	X 0 PI RR St	2, 4A, and alt Crust (B1 quatic Invert ydrogen Suli xidized Rhiz resence of R ecent Iron Rounted or Stra ther (Explain	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emarks: IYDROLOC Vetland Hyd rimary Indica Si W Si Ai Inc Si Inc Si eld Observa	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on A parsely Vegetated Co ations: resent? Yes	one requi	ery (B7)	W 1, s A A A A A A A A A A A A A A A A A A	2, 4A, and alt Crust (B1 quatic Invertydrogen Sultividized Rhiz resence of Recent Iron Runted or Struther (Explain aches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Ceduction in Ploessed Plants (In Remarks)	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
emarks: IYDROLOC /etland Hyd rimary Indica Si H Si Di Irc Si In Sr eld Observa Irface Water P ater Table Pre-	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) rater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on A parsely Vegetated Coations:	one requi	ery (B7) ace (B8) No X No X	William Silver And Andrews And	2, 4A, and alt Crust (B1 quatic Invertydrogen Sull xidized Rhizzesence of Recent Iron Runted or Strutter (Explain ther (Explain thes):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (Ceduction in Placessed Plants (Con Remarks)	Except MLRA g Living Roots (C3) C4) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
IYDROLOC Vetland Hyd rimary Indica Si H Si Vi Si Iri Iri	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bi undation Visible on A barsely Vegetated Co ations: resent? Yes sent? Yes int? Yes	one requi	ery (B7)	W 1, s A A A A A A A A A A A A A A A A A A	2, 4A, and alt Crust (B1 quatic Invertydrogen Sull xidized Rhizzesence of Recent Iron Runted or Strutter (Explain ther (Explain thes):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Ceduction in Ploessed Plants (In Remarks)	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)
Property and the state of the s	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bi undation Visible on A barsely Vegetated Co ations: resent? Yes sent? Yes int? Yes	one requi	Pry (B7) ace (B8) No X No X No X	William Silver And Andrews And	2, 4A, and alt Crust (B1 quatic Invertydrogen Sull xidized Rhizz resence of Recent Iron Runted or Strutter (Explain ther (Explain thes):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Ceduction in Picessed Plants (In Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) X Frost-Heave Hummocks (D7)

intaine Va	lleys, and Coast	PHS#	6464
	Sampling Date:	_	IR/201R
	OR S		
	on 17, Township 4S,		
ivex, none):	None		10
	-123.2158		WGS84
	assification:		
	(if no, expla		
mal Circumstan	ices" present? (Y/N)	Y	
ny answers in R	emarks.)		
s, transects	s, important featu	res, etc.	
Vac	N	lo V	
163		loX	•
ice Test woi	·ksheet:		· · · · · · · · · · · · · · · · · · ·
f Dominant Spe	cies		
OBL, FACW, or		4	(A)
	 		` ,
nber of Dominar	nt		
cross All Strata		4	(B)
f Dominant Spe	cies		
DBL, FACW, or	FAC: 10	00%	(A/B)
	orksheet:		
over of	orksheet: Multiply by:	_	
nce Index Wo cover of Species		0	
over of Species W species	Multiply by: x 1 = x 2 =	0	
over of Species V species Species	Multiply by: x 1 = x 2 = x 3 =	0	
Species W species Species U Species	Multiply by: x 1 = x 2 = x 3 = x 4 =	0 0 0	
over of Species V species Species J Species Species	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 =	0 0 0	
over of Species V species Species J Species Species	Multiply by: x 1 = x 2 = x 3 = x 4 =	0 0 0	(B)
over of Species V species Species	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A)	0 0 0	(B)
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Species V species Species J Species Species In Totals Species Species In Totals Species Species In Totals	Multiply by: x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) 3/A = #DI on Indicators: I- Rapid Test for Hydropi	0 0 0 0 0	
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,	WETLAND	DLIL	-1/18/11/17/11/	DAIAIC	TRIVI - WVCS	ciii mountai	, rancy	s, and oods	Region	
Project/Site:	Oak Ridge			City/County:	Mc	Minnville/Yamil	<u> </u>	Sampling Date:	10/1	8/2018
Applicant/Owner:	Premier D	evelopn	nent, LLC				State: C	R	Sampling Point:	11
nvestigator(s):	alayahaya ara ara ara ara ara ara ara ara ara	CM/JT	- Aller Committee - Committee -	Section, T	ownship, Range		Section 17	, Township 4S	, Range 4W	
andform (hillslope,	terrace, etc.:)		Slope	•	Local relief (c	oncave, convex, n	one):	None	Slope (%):	10
ubregion (LRR):	· · · · · · · · · · · · · · · · · · ·	LRR	A	Lat:	45.22	867	Long:	-123.2158	Datum:	WGS84
oil Map Unit Name	:		Woodi	ourn silt loam			NWI Classific	ation:	- None	areas
re climatic/hydrolog	gic conditions c	n the site	typical for this t	ime of year?	Yes	. X	No		in in Remarks)	
re vegetation				significantly dis	turbed?			resent? (Y/N)	Y	
re vegetation	Soil		lydrology			ed, explain any ans				
		_								
UMMARY OF	FINDINGS	- Atta	ch site map	showing sar	npling poin	t locations, tra	ansects, im	portant featu	res, etc.	
drophytic Vegetat	ion Present?	Yes	X N	0						
ydric Soil Present?	•	Yes	N	oX	Is Sampled A		Yes	N	o X	
etland Hydrology f	Present?	Yes	N	> X				······		
emarks:							····			
EGETATION -	- Use scien	tific na	mes of plan	its.						
			absolute	Dominant Species 2	Indicator	Dominance 1	rest workshe	et:		
ee Stratum (plot	t size:	,	% cover	Species?	Status	Nhumb 15				
(р.о.			,			Number of Dom				
			-			That are OBL, F	ACW, or FAC:		4 ((A)
						. Total Number of	f Damia			
						Total Number of Species Across				D)
			0	= Total Cover		opecies Acioss	All Strata.		4(B)
pling/Shrub Stratu	m (plataina	. 45				1				
Rubus armen		: 15		v		Percent of Domi	•			
Rubus armen	iacus		20	X	FAC	That are OBL, F	ACW, or FAC:	10)0% (A/B)
								_		
	···					Prevalence Ir				
	- 100° ·					Total % Cover o		Multiply by:	-	
the state of the s			20	= Total Cover		OBL Spec		x1=	0	
				- Total Cover		FACW spec		x2= x3=	0	
<u>b Stratum</u> (plot	size:	5)				FACU Spec	*	x4=	0	
Alopecurus p	ratensis		50	x	FAC	UPL Speci	ies	 x 5 =	0	
Holcus lanatu	s	W	25	X	FAC	Column To		(A)	0 (3)
Cirsium arven	ise		25	X	FAC		· · · · · ·	***************************************	`	•
						Prevalence	e Index =B/A =	#DI	IV/01	
						Hydrophytic '	Vegetation In	dicators:		
							1- Rap	id Test for Hydrop	hytic Vegetation	
					- court		X 2- Dom	inance Test is >50	0%	
				- T-4-1 O				alence Index is ≤ 3		
			100	= Total Cover					ons¹ (provide su	pporting
ody Vine Stratum	(plot size:		100	= Total Cover						
ody Vine Stratum	(plot size:		100	= Total Cover			data in	Remarks or on a	separate sheet)	
ody Vine Stratum	(plot size:		100	= Total Cover		PVII. 86.11	data in 5- Wet	Remarks or on a sand Non-Vascular	separate sheet) Plants ¹	
ody Vine Stratum	(plot size:)			110.410.	data in 5- Weti Problei	Remarks or on a sand Non-Vascular matic Hydrophytic	separate sheet) Plants ¹ Vegetation ¹ (Exp	olain)
ody Vine Stratum	(plot size:			= Total Cover			data in 5- Weti Problei dric soil and wet	Remarks or on a sand Non-Vascular	separate sheet) Plants ¹ Vegetation ¹ (Exp	olain)
)			¹ Indicators of hydisturbed or prob	data in 5- Weti Problei dric soil and wet	Remarks or on a sand Non-Vascular matic Hydrophytic	separate sheet) Plants ¹ Vegetation ¹ (Exp	olain)
ody Vine Stratum)			disturbed or prob	data in 5- Wet Problet dric soil and wet elematic.	Remarks or on a sand Non-Vascular matic Hydrophytic	separate sheet) Plants ¹ Vegetation ¹ (Exp	olain)

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PHS	##	

Sam	nlina	Point
Oam	PIIII	1 01111

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Depth	Matrix				x Features	illiniii tile aps	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/2	98	7.5YR 4/4	2	C	M	Silty Clay Loam	Fine
10-14	10YR 3/2	90	5YR 4/6	10	c	PL	Silty Clay Loam	Fine
14-24	10YR 3/1	98	5YR 4/6	2	<u>C</u>	M	Silty Clay Loam	Fine
	-							
			And the second s	***************************************	* ************************************			
	centration, D=Depletion							² Location: PL=Pore Lining, M=Matrix.
dydric Soil	ndicators: (Appli	cable to	all LRRs, unless	otherw	ise noted.)	M30 , 2,000		tors for Problematic Hydric Soils ³ :
,	Histosol (A1)			···	Sandy Redox	k (S5)		2 cm Muck (A10)
	distic Epipedon (A2)		-		Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A3)		-		Loamy Muck	y Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TF12)
t	dydrogen Sulfide (A4)	ı	_		Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A	.11)		Depleted Mai	trix (F3)		
	hick Dark Surface (A	12)			Redox Dark 8	, ,		
	Sandy Mucky Mineral	(S1)	-			k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix (S4)	_		Redox Depre			hydrology must be present, unless disturbed or problematic.
estrictive L	.ayer (if present):					()		problematic.
уре:								
epth (inches)	:				-		Hydric Soil Prese	ent? Yes No X
IYDROLOG	GY rology Indicators	:						
etland Hyd			ired; check all tha	t apply)				Secondary Indicators (2 or more required)
/etland Hy d rimary Indic	rology Indicators		ired; check all tha		Water stained	Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (R9)
/etland Hyd rimary Indic	rology Indicators		ired; check all tha		Water stained		Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
/etland Hyd rimary Indica s	rology Indicators ators (minimum of urface Water (A1)		ired; check all tha	V 1		4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
/etland Hyd rimary Indic s H	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2)		ired; check all tha	1	1, 2, 4A, and Salt Crust (B1	4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
rimary Indic	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3)	one requ	ired; check all tha	V 1 1	1, 2, 4A, and Salt Crust (B1 Aquatic Invert	4B) 1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Vetland Hyd rimary Indic S H S W	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1)	one requ	ired; check all tha - - -	1 5 	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul	4B) 1) ebrates (B13) fide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
rimary Indicates S H S W S D	rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2)	one requi	ired; check all tha	S	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon	g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2)
Vetland Hyd rimary Indica S H S W S D A	rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	one requi	ired; check all tha	V 1 	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sult Dxidized Rhiz Presence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon leduced Iron (G	g Living Roots (C3) C4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3)
Jetland Hydrimary Indicates S H S V S D A	rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) Igal Mat or Crust (B4)	one requ	ired; check all tha	\ 1	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Pla	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
rimary Indications S H S V S D A In	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) igal Mat or Crust (B4) on Deposits (B5)	one requ	-	V 11	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Suli Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon leduced Iron (G	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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PHS # ast Region	6464
e:10/1	8/2018
Sampling Point:	
4S, Range 4W	
Slope (%):	10
	WGS84
None	
xplain in Remarks)	
Y	
	•
itures, etc.	
No	
	The second secon
1	(A)
1	(A)
1	(B)
100%	(A/B)
oy:	
: 0	
. 0	
0	
. 0	
0	
0 (В)
#DIV/0!	
Irophytic Vegetation	

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coa

		City/County:	IVICIV	Minnville/Yamill	Sampling Date:	10/18/2018
Applicant/Owner: Premier Develop	ment, LLC			State:	OR	Sampling Point: 12
Investigator(s): CM/JT		Section, T	ownship, Range:	Section	n 17, Township 49	The state of the s
Landform (hillslope, terrace, etc.:)	Slope			oncave, convex, none):	None	
Subregion (LRR): LRR	₹ A	Lat:	45.22			Datum: WGS84
Soil Map Unit Name:		urn silt loam	·	<u> </u>		
Are climatic/hydrologic conditions on the site			Vec		ssification:	None
			Yes		The second secon	lain in Remarks)
		significantly dist		Are "Normal Circumstance		Y
Are vegetation Soil or I	Hydrology	naturally proble	matic? If needer	d, explain any answers in Ren	narks.)	
SUMMARY OF FINDINGS - Atta	ach site map	chowing sar	malina naint	lacations transpote	***** autout foot	4.
Hydrophytic Vegetation Present? Yes			Thing bour	locations, namecus,	ітрогані неац	ires, etc.
	X No	A-100	is Sampled Ar	rea within		
•	X No		a Wetlar	nd? Yes_	<u> </u>	No
Wetland Hydrology Present? Yes	X No	1				
Remarks:						
Seep wetland						
VEGETATION - Use scientific na	mes of plant	ts.				
	absolute	Dominant	Indicator	Dominance Test works	sheet:	
-	% cover	Species?	Status		J. 1000.	
Tree Stratum (plot size:	_)		-	Number of Dominant Specie	es	
1		<u> </u>		That are OBL, FACW, or FA	AC:	1 (A)
2					•	
3				Total Number of Dominant		
4				Species Across All Strata:	•	1 (B)
	0	= Total Cover			-	
Sapling/Shrub Stratum (plot size:)			Percent of Dominant Specie		
1	'			That are OBL, FACW, or FA		100% (A/B)
2				I hat are ODL, FACEY, C	AC:	100% (A/B)
3				Prevalence Index Work	141	
4				Į.		
5				Total % Cover of OBL Species	Multiply by:	
	0	= Total Cover		OBL Species	x1=	
		= 10lai 00v6.		FACW species FAC Species	x 2 = x 3 =	<u>0</u>
Herb Stratum (plot size: 5)			FAC Species FACU Species	x3= x4=	0
1 Phalaris arundinacea	100	х	FACW	UPL Species	x4= x5=	0
2			1714	Column Totals		
3	•			Column rotats	0 (A)	(B)
4				Prevalence Index =B/A	^ _ #!	DIV/0!
5				FIEVAIGHOU HINGA E,,	/=	/IV/UI
6				Ludronhytic Vegetatio	- Indicatore	
7				Hydrophytic Vegetation		· · · · · · · · · · · · · · · · · · ·
8					Rapid Test for Hydro	· · -
	100	= Total Cover			Dominance Test is >5 Prevalence Index is ≤	
	10-	= 10tai 00,0.	,			3.0' ations ¹ (provide supporting
Voody Vine Stratum (plot size:)		,		morpnological Adapta Ita in Remarks or on a	· · · · · · · · · · · · · · · · · · ·
1	.com '		•	ł .	ita in Remarks or on a Wetland Non-Vascula	• •
2				· · · · · · · · · · · · · · · · · · ·		ar Plants [.] ic Vegetation ¹ (Explain)
	0	= Total Cover				
		= TOTAL COVE	'	¹ Indicators of hydric soil and disturbed or problematic.	wetland hydrology in	ust be present, unless
			1	Hydrophytic		
	_			Vegetation	Yes X	No
% Bare Ground in Herb Stratum	0		1	rvegetation	100 /	110

PHS#	6464

Sa	mr	dino	ı Da	nint:

4	2

Depth	Matrix				x Features		ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	99	5YR 4/4	1	С	M	Silty Clay Loam	Fine
6-12	10YR 3/2	88	5YR 4/6	10	C	М	Silty Clay Loam	Fine
6-12			5YR 4/6	2	С	PL.	Silty Clay Loam	Fine

			-					
					- non-thine			
F								
	entration, D=Depletio					d Grains.		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Applic	cable to	all LRRs, unless	otherw	ise noted.)		Indica	tors for Problematic Hydric Soils ³ :
	Histosol (A1)		_		Sandy Redox	(S5)		2 cm Muck (A10)
	Histic Epipedon (A2)		-		Stripped Matr	rix (S6)		Red Parent Material (TF2)
E	Black Histic (A3)		_		Loamy Mucky	y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
<u> </u>	dydrogen Sulfide (A4)		_		Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark S	Surface (A	- 11)		Depleted Mat	rix (F3)		
7	Thick Dark Surface (A	12)	-		Redox Dark S	. ,		
	Sandy Mucky Mineral		-			k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix (-		Redox Depres	` '		hydrology must be present, unless disturbed or
		,	-		rtedox Depre	ssions (FO)		problematic.
	.ayer (if present):							
ype:					<u>.</u>			
onth (inches)							•	
emarks:							Hydric Soil Prese	ent? Yes X No
epth (inches) emarks: YDROLOG /etland Hyd		:					Hydric Soil Prese	ent? Yes X No
emarks: YDROLOG /etland Hyd	ЗY		ired; check all tha	t apply)			Hydric Soil Prese	
emarks: YDROLOG /etland Hyd rimary Indic	GY rology Indicators		ired; check all tha		W ater stained	Leaves (B9) (I		Secondary Indicators (2 or more required)
emarks: YDROLOG /etland Hyd rimary Indica	GY rology Indicators ators (minimum of		ired; check all tha		Vater stained			
YDROLOG Vetland Hyd rimary Indic	GY rology Indicators ators (minimum of ourface Water (A1)		ired; check all tha	1	I, 2, 4A, and	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOO etland Hyd rimary Indica	GY rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2)		ired; check all tha		I, 2, 4A, and 4 Salt Crust (B1	4B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
YDROLOG letland Hyd rimary Indica S H	GY Irology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3)	one requi	ired; check all tha		I, 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)
YDROLOG Vetland Hyd rimary Indica S H	rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1)	one requi	ired; check all tha) ()	I , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf	4B) 1) ebrates (B13) fide 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 (
YDROLOO Yetland Hyd rimary Indica S H S W	rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2	one requi	ired; check all tha	X (c	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize	4B) 1) ebrates (B13) fide Odor (C1) ospheres along	Except MLRA J 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 (Geomorphic Position (D2)
YDROLOO Vetland Hyd rimary Indica	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) // ater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	one requi	ired; check all tha	X C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C	Except MLRA g 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 (Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOG fetland Hyd rimary Indica S H S W S	aturation (A3) Jater Marks (B1) ediment Deposits (B2) rift Deposits (B3) Jater Mat or Crust (B4)	one requi	ired; check all tha	X C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of R Recent Iron Re	4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C	Except MLRA J Living Roots (C3) (44) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
YDROLOG Vetland Hyd rimary Indica S H S W S	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6)	one requi	-	X (C	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of R Recent Iron Re Stunted or Stre	4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C) eduction in Plotessed Plants (I	Except MLRA J Living Roots (C3) (44) 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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YDROLOG Vetland Hyd rimary Indica S H S U Ir S In S	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Colations: Vesent? Yes sent? Yes ininge)	one requi	ery (B7) face (B8) NoX NoX	X (C) Depth (i) Depth (i)	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dixidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain Inches): Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C eduction in Plo essed Plants (I in Remarks) >12 >12	Except MLRA J Living Roots (C3) (4) Wed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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PHS#

3464

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

Jak Kluge	Subdivi	sion	City/County:	McM	linnville/Yamill	Sampling Date:	10/24	/2018
Premier De	∍velopm	ent, LLC						13
í	CM/JT		Section, To	ownship, Range:		100000000	· · -	
race, etc.:)		Sic		• • •	Company of the Compan		The same of the sa	10
	LRR /	A	Lat:					
		Wald		444				11000-7
conditions or	n the site t							
			•			` '	•	
	_	_						
						·		
	- Attac	:h site m	ap showing san	npling point	locations, transects,	, important featu	res, etc.	
Present?	Yes _	X	No	le Campled A	ron within			
	Yes		NoX		nd? Yes_	1	No X	
sent?	Yes _		No X				-	
se scienti	ific nan				T			
				Indicator Status	Dominance Test work	<sheet:< td=""><td></td><td></td></sheet:<>		
ze:)				Number of Dominant Spec	cies		
		-			That are OBL, FACW, or F	AC:	3 (/	۹)
								•
					Total Number of Dominant	(
					Species Across All Strata:		<u>3</u> (E	3)
		0	= Total Cover					
`` -	15	- '			Percent of Dominant Speci	ies		
:us		30	x	FAC	That are OBL, FACW, or F	FAC:1	00% (A	VB)
		30	= Total Cover		<u> </u>			
			1000,0070		FAC Species	x2= x3=	0	
)				FACU Species	x 4 =	0	
acea		70	X	FACW	UPL Species	x5=	0	
			<u>X</u>	FAC	Column Totals	0 (A)	0 (B)
				FAC				
im		5		FAC	Prevalence Index =B/	/A = #D	IV/01	
					Lydrophytic Vogototic	ludinatara		
<u> </u>				M			nhidia Vagatation	
		100	= Total Cover	1-0	AND THE PARTY OF T		_	
			-		4-	-Morphological Adapta	tions ¹ (provide sup	porting
plot size:		_)		:	l .			
			Total Occupa					•
	1	<u> </u>	= Total Cover	!		d wetland hydrology m	ust be present, un	less
					Hydrophytic			
Stratum	0)		ļ.	Vegetation	Yes X	No	
-					Present?			
	conditions on Soil Soil INDINGS - Present? sent? (plot size: cus (plot size: cus	conditions on the site t Soil or Hy Soil or Hy Soil Yes Yes Sent? Yes Sentific nan (plot size: 15 cus (plot size: 5)	In a conditions on the site typical for this soil or Hydrology Soil or Hydrology Individual Soil or Hyd	CM/JT Section, To Trace, etc.:) Slope LRR A	CM/JT Section, Township, Range: race, etc.:) Slope	CM/JT	CMJT	Premier Development, LLC

PH	2	Ħ	

Sam	nlina	Point:
Carri	PIIIIQ	L OHIE

4	-2
- 1	

Depth	Matrix	ine acpin	needed to docum		ncator or co x Features	ntirm the abse	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100			**************************************		Silty Clay	Remarks
3-12	10YR 4/3	94	10YR 4/1	1	D	М	Silty Clay	Fine
3-12	10YR 2/1	5		PORT - 1001 - 10			Silty Clay	
				-	-			
				Carlos Marketta				
¹ Type: C=Con	centration, D=Depletion	n RM=Re	duced Matrix CS=	Covered o	Costed Sar	od Crains		21
	Indicators: (Appli						Indic	² Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
	Histosol (A1)		,		Sandy Redo		maic	<u>*</u>
	Histic Epipedon (A2)				Stripped Mar			2 cm Muck (A10)
	Black Histic (A3)					y Mineral (F1) (e	except MI RA 1)	Red Parent Material (TF2)
	Hydrogen Sulfide (A4))				ed Matrix (F2)	neept in Live 17	Very Shallow Dark Surface (TF12)
	Depleted Below Dark		11)		Depleted Ma	• •		Other (explain in Remarks)
	Thick Dark Surface (A		,			Surface (F6)		
	Sandy Mucky Mineral					rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix				Redox Depre	` '		hydrology must be present, unless disturbed or
	ayer (if present):				Tredox Depre	35510115 (1 O)		problematic.
	-ayei (ii preseiit).							
Type:	\.				_			
Depth (inches):				_		Hydric Soil Pres	ent? Yes NoX
Remarks:								
HYDROLO								
HYDROLO	GY Irology Indicators	::				****		
HYDROLO			ired; check all th	at apply)				Secondary Indicators (2 or more required)
HYDROLO Wetland Hyd	Irology Indicators		ired; check all th		Vater stained	i Leaves (B9) (E	except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOG Wetland Hyd Primary Indic	Irology Indicators ators (minimum of Burface Water (A1) ligh Water Table (A2)	one requi	ired; check all th	\	Vater stained		xcept MLRA	
HYDROLOG Wetland Hyd Primary Indic S 	drology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3)	one requi	ired; check all th	\\ 1		4B)	Except MLRA	Water stained Leaves (B9)
HYDROLOG Wetland Hyd Primary Indic F F S	Arology Indicators ators (minimum of Burface Water (A1) digh Water Table (A2) Baturation (A3) Vater Marks (B1)	one requi	ired; check all th	\ 1 8	I , 2, 4A, and Salt Crust (B	4B)	except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Wetland Hyd Primary Indic S H	ators (minimum of ators (minimum of Burface Water (A1) digh Water Table (A2) Baturation (A3) Vater Marks (B1) Bediment Deposits (B2)	one requi	ired; check all th	\ 1 5 	I , 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su	4B) 11) tebrates (B13) lfide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Wetland Hyd Primary India F S V	ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B2) Orift Deposits (B3)	one requi	ired; check all th	\ 1 \$ 	I , 2, 4A, and Salt Crust (B ² Aquatic Inven Hydrogen Su Oxidized Rhiz	4B) 11) tebrates (B13) lfide Odor (C1) cospheres along	Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
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HYDROLO Wetland Hyd Primary Indic S H S V S L A	ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Jagal Mat or Crust (B4) on Deposits (B5)	one requi	ired; check all th	\ 1 \$ } } C	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F	4B) 11) tebrates (B13) lfide Odor (C1) tospheres along Reduced Iron (Coteduction in Ploy	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
HYDROLO Wetland Hyc Primary Indic S H S U S In Ir S	ators (minimum of Burface Water (A1) digh Water Table (A2) Baturation (A3) Vater Marks (B1) Bediment Deposits (B2) Drift Deposits (B3) Jugal Mat or Crust (B4) on Deposits (B5)	one requi		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of Faceent Iron F	4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (Cateduction in Ploy ressed Plants (D	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indic S 	ators (minimum of Surface Water (A1) digh Water Table (A2) dighter Table (A2) dighter Table (A2) vater Marks (B1) diediment Deposits (B2) dighter Deposits (B3) dighter Trust (B4) don Deposits (B5) diurface Soil Cracks (B	one requi	ery (B7)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of Faceent Iron F	4B) 11) tebrates (B13) lfide Odor (C1) tospheres along Reduced Iron (Coteduction in Ploy	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
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HYDROLOG Wetland Hyd Primary Indic S V S In In S Ir S Field Observ	ators (minimum of Surface Water (A1) digh Water Table (A2) dighted Water Table (A2) dighted Water Table (A2) dighted Water Marks (B1) dighted Water Marks (B1) dighted Water Marks (B3) dighted Water Crust (B4) don Deposits (B5) durface Soil Cracks (B4)	one requi	ery (B7) face (B8)	1 5 4 6 7 6 7 8	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of F Recent Iron R Stunted or Str	4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (Cateduction in Ploy ressed Plants (D	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLO Wetland Hyd Primary Indic S I S I I S Field Observ Gurface Water F	ators (minimum of Surface Water (A1) digh Water Table (A2) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Algal Mat or Crust (B4) on Deposits (B5) Surface Soil Cracks (B Enundation Visible on A Eparsely Vegetated Co- ations:	one requi	ery (B7) face (B8)	I S S S S S S S S S S S S S S S S S S S	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dixidized Rhiz Presence of F Recent Iron F Stunted or Str Other (Explain	4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- teduction in Plov ressed Plants (C- n in Remarks)	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLO Wetland Hyd Primary Indic S In S Field Observ Surface Water F	ators (minimum of Burface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) Sturface Soil Cracks (B4) parsely Vegetated Contains: Present? Yes	one requi	ery (B7) face (B8) No X	Pepth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dixidized Rhiz Presence of F Recent Iron F Stunted or Sti Dther (Explain Inches): Inches): Inches): Inches	4B) 11) tebrates (B13) Ifide Odor (C1) tospheres along Reduced Iron (Citeduction in Plov ressed Plants (Din in Remarks)	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLO Wetland Hyd Primary Indic S I S I I S Field Observ Gurface Water F	ators (minimum of Surface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B dundation Visible on A deparsely Vegetated Co ations: Present? Yes ent? Yes ent? Yes	one requi	ery (B7) face (B8)	I S S S S S S S S S S S S S S S S S S S	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dixidized Rhiz Presence of F Recent Iron F Stunted or Sti Dther (Explain Inches): Inches): Inches): Inches	4B) 11) tebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- teduction in Plov ressed Plants (C- n in Remarks)	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indic S H S IN S Ir S Field Observ Surface Water F Vater Table Pres Saturation Press Includes capillary	ators (minimum of Surface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) dight Deposits (B3) dight Deposits (B3) dight Or Crust (B4) don Deposits (B5) durface Soil Cracks (B4) durface Soil Cracks (B4) diparsely Vegetated Contains: Present? Yes esent? Yes ent? Yes fringe)	one requi	ery (B7) face (B8) NoX NoX NoX	Depth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or Sti Dther (Explain nches):	4B) 11) tebrates (B13) Ifide Odor (C1) tospheres along Reduced Iron (Citeduction in Plov ressed Plants (Din in Remarks) >12 >12	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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HYDROLOG Wetland Hyd Primary Indic S H S IN S Ir S Field Observ Surface Water F Vater Table Pres Saturation Press Includes capillary	ators (minimum of Surface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) dight Deposits (B3) dight Deposits (B3) dight Or Crust (B4) don Deposits (B5) durface Soil Cracks (B4) durface Soil Cracks (B4) diparsely Vegetated Contains: Present? Yes esent? Yes ent? Yes fringe)	one requi	ery (B7) face (B8) NoX NoX NoX	Depth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or Sti Dther (Explain nches):	4B) 11) tebrates (B13) Ifide Odor (C1) tospheres along Reduced Iron (Citeduction in Plov ressed Plants (Din in Remarks) >12 >12	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indic S H S IN S Ir S Field Observ Surface Water F Vater Table Pres Saturation Press Includes capillary	ators (minimum of Surface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) dight Deposits (B3) dight Deposits (B3) dight Or Crust (B4) don Deposits (B5) durface Soil Cracks (B4) durface Soil Cracks (B4) diparsely Vegetated Contains: Present? Yes esent? Yes ent? Yes fringe)	one requi	ery (B7) face (B8) NoX NoX NoX	Depth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or Sti Dther (Explain nches):	4B) 11) tebrates (B13) Ifide Odor (C1) tospheres along Reduced Iron (Citeduction in Plov ressed Plants (Din in Remarks) >12 >12	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

1	WETLAND	DETE	RMINATIO	ON DATA FO	RM - West	ern Mountain	s, Vallevs,	and Coast	PHS #	6464
Project/Site:	Oak Ridge			City/County:		//innville/Yamill		ampling Date:	_	4/2018
Applicant/Owner:	Premier D			, ,			State: OF		Sampling Point:	
Investigator(s):		CM/JT		Section, To	ownship, Range:			Township 4S,		17
Landform (hillslope,	terrace, etc.:)	A CONTRACTOR OF THE PARTY OF TH	Slope			oncave, convex, non-	20, X-1,	None		2
Subregion (LRR):	,,	LRR	· · · · · · · · · · · · · · · · · · ·	Lat:	45.22		,		_ Slope (%):	
Soil Map Unit Name			*	silty clay loam	43.22		-	123.21549	_ Datum:	WGS84
Are climatic/hydrolog		n the cite			· ·		NWI Classificat		None	
				•		<u>X</u>		(if no, explai		
Are vegetation									Y	
Are vegetation	_ 3011	or Hy	arology	naturally proble	matic? If neede	d, explain any answe	ers in Remarks.)		
SUMMARY OF	FINDINGS	- Attac	h site mar	showing sar	npling point	locations, tran	sects. imp	ortant featur	es. etc.	
Hydrophytic Vegetat		Yes		lo	1					
Hydric Soil Present?	•	Yes		0	Is Sampled A		Yes X	No		
Wetland Hydrology F	Present?	Yes -		0	a Wetla	ma r	103 <u>X</u>			•
Remarks:	and the same of th									
, tomanio.										
VEGETATION -	- Use scien	tific nar	nes of plan	nts.			·····			
		······································	absolute	Dominant	Indicator	Dominance Te	st workshee	t:		
			% cover	Species?	Status	.		-		
Tree Stratum (plo	t size:)				Number of Domina	ant Species			
1						That are OBL, FA	CW, or FAC:		1	(A)
2			···							
3						Total Number of D	ominant			
4	·					Species Across Al	l Strata:		1	(B)
			0	= Total Cover						
Sapling/Shrub Stratu	m (plot size	:	_)			Percent of Domina	ınt Species			
1	······································					That are OBL, FAG	CW, or FAC:	10	0%	(A/B)
2										
3						Prevalence Ind	ex Workshe	et:		
4 						Total % Cover of		Multiply by:	-	
5						OBL Species		x 1 =	0	
			0	≃ Total Cover		FACW species		x2=	0	
Herb Stratum (plot	size:	5)				FACU Species		x3= x4=	0	
1 Phalaris arun	dinacea	· · · · · · · · · · · · · · · · · · ·	100	X	FACW	UPL Species		- ^ x5=	0	
2 Rubus armen	iacus		20		FAC	Column Total		— (A)		(B)
3								()		(-)
4						Prevalence I	ndex =B/A =	#DI	V/0I	
5										
6						Hydrophytic Ve	getation Ind	icators:		
7							1- Rapid	Test for Hydroph	nytic Vegetation	1
8					also see a see	X	2- Domir	nance Test is >50)%	
			120	= Total Cover				ence Index is≤3		
Woody Vine Stratum	(plot size:		,					ological Adaptatio		
1	(piot size:		_'					Remarks or on a s)
2								nd Non-Vascular		
£.,	11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		0	a Tatal O		Undiantary of the Co		atic Hydrophytic		
			U	= Total Cover		¹ Indicators of hydridisturbed or proble		na hydrology mu	st be present, t	ınless
						Hydrophytic				
% Bare Ground in He	rb Stratum)			Vegetation	Ye	es X	No_	· ·
			***************************************			Present?				

Remarks:

PHS #

Sampling Point:

Depth	Matrix				x Features		ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/2	98	5YR 3/4	2	<u>C</u>	PL	Silty Clay Loam	Fine
4-6	10YR 3/2	100					Silty Clay Loam	
6-12	10YR 5/2	90	10YR 5/6	10	С	М	Silty Clay Loam	Fine
		974-0						
		-		*		handamana yawah dan dan dan garangan ya	S A S S S S S S S S S S S S S S S S S S	
`\rac C=Cana								
	entration, D=Depletion							² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli	cable to	ali LRRs, unies	s otherwi	se noted.)		Indica	tors for Problematic Hydric Soils ³ :
	listosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
	listic Epipedon (A2)				Stripped Mate			Red Parent Material (TF2)
	lack Histic (A3)				Loamy Mucky	y Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TF12)
н	ydrogen Sulfide (A4)		[Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
XD	epleted Below Dark	Surface (A	11)	X	Depleted Mat	rix (F3)		
T	hick Dark Surface (A	12)		F	Redox Dark S	Surface (F6)		
s	andy Mucky Mineral	(S1)		[Depleted Dar	k Surface (F7))	³ Indicators of hydrophytic vegetation and wetland
S	andy Gleyed Matrix	(S4)		F	Redox Depre	ssions (F8)		hydrology must be present, unless disturbed or problematic.
estrictive La	ayer (if present):							
ype:	, (1						:	
epth (inches):				- ,	•			
								nt? Vac V Na
emarks:					•		Hydric Soil Prese	ent? Yes X No
emarks: YDROLOG		»:			-		Hydric Soil Prese	THE NO
emarks: YDROLOG etland Hydi	e Y		ired; check all th	at apply)	-		Hydric Soil Prese	
emarks: YDROLOG etland Hydi imary Indica	SY rology Indicators		ired; check all th		- Vater stained	Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
YDROLOG etland Hydi rimary Indica	GY rology Indicators ttors (minimum of	one requi	ired; check all th	V	Vater stained , 2, 4A, and			Secondary Indicators (2 or more required)
YDROLOG etland Hydr imary Indica	SY rology Indicators stors (minimum of urface Water (A1)	one requi	ired; check all th	V 1		4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOG etland Hydi imary Indica St Hi	SY rology Indicators itors (minimum of urface Water (A1) gh Water Table (A2)	one requi	ired; check all th	V 1	, 2, 4A, and Galt Crust (B1	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9)
YDROLOG etland Hydi imary Indica Su Hi Sa W	orology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3)	one requi	ired; check all th	V 1 S	, 2, 4A, and Balt Crust (B1 Equatic Invert	4B) 1)	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)
YDROLOG etland Hydr imary Indica St Hi Sa W	rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) sturation (A3) sater Marks (B1)	one requi	ired; check all th	V 1 S A	, 2, 4A, and a Salt Crust (B1 Aquatic Invert Hydrogen Sulf	4B) 1) ebrates (B13) fide 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)
YDROLOG etland Hydr imary Indica St Hi Sa W Se	rology Indicators ators (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1)	one requi	ired; check all th	V 1 S A H X C	, 2, 4A, and Salt Crust (B1 Aquatic Inverti Hydrogen Sulf Oxidized Rhiz	4B) 1) ebrates (B13) fide 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 (
YDROLOG etland Hydi imary Indica Si Hi Sa W Se Dr	rology Indicators ators (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B2) ift Deposits (B3)	one requi	ired; check all th	V 1 1 S A A A A A A A A A A A A A A A A A	, 2, 4A, and a calt Crust (B1 equatic Invertify dydrogen Sulf exidized Rhize tresence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon leduced Iron (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 (Geomorphic Position (D2)
YDROLOG etland Hydirimary Indica Hi Sa Wi Se Dr Alg	rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) ediment Deposits (B3) gal Mat or Crust (B4)	one requi	ired; check all th	V 1 1 S A A A A A A A A A A A A A A A A A	, 2, 4A, and a salt Crust (B1 equatic Inverti- dydrogen Sulf exidized Rhize decent Iron Re-	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon leduced Iron (Except MLRA g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
YDROLOG Yetland Hydromary Indicates Hitching Sages Work Segent Alegoricates Iron Sulphin Sulph	rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) ediment Deposits (B3) gal Mat or Crust (B4) in Deposits (B5)	one requi		V 11 S A A C C P R S	, 2, 4A, and a calt Crust (B1 equatic Inverti- dydrogen Sulf exidized Rhiza resence of Ra decent Iron Ra dunted or Stratunted or Stratunted	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (reduction in Pla	Except MLRA g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOG etland Hydr imary Indica Hi Sa W Se Dr Ali Iro	ators (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) ediment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B	one requi	ery (B7)	V 11 S A A C C P R S	, 2, 4A, and a calt Crust (B1 equatic Inverti- dydrogen Sulf exidized Rhiza resence of Ra decent Iron Ra dunted or Stratunted or Stratunted	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Except MLRA g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hydi imary Indica Si Hi Sa W Se Dr Alg	sy rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) ediment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B undation Visible on A	one requi	ery (B7)	V 11 S A A C C P R S	, 2, 4A, and a calt Crust (B1 equatic Inverti- dydrogen Sulf exidized Rhiza resence of Ra decent Iron Ra dunted or Stratunted or Stratunted	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Except MLRA g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hydrimary Indica State Hiteland State Or Ala Iro Su Inu Sp eld Observa	tors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) addiment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Alarsely Vegetated Contions:	one requi	ery (B7)	X C P R S O	, 2, 4A, and a call Crust (B1 equatic Invertible of Record Record Iron Iron Iron Iron Iron Iron Iron Iron	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Except MLRA g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
PYDROLOG Petland Hydi rimary Indica St Hi Sa W Se Dr Ale Iro Su Int Sp eld Observa	rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B3) agal Mat or Crust (B4) an Deposits (B5) urface Soil Cracks (B undation Visible on A arrsely Vegetated Co ations: resent? Yes	one requi	ery (B7) face (B8)	V 1 1 S A A A A A A A A A A A A A A A A A	, 2, 4A, and dialt Crust (B1 equatic Invertibly drogen Sulf expense of Recent Iron Returned or Struther (Explain enches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced iron (reduced iron (reduction in Plates essed Plants (reduced iron in Remarks)	g Living Roots (C3) C4) owed Soils (C6) D1) (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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
PYDROLOG Petland Hydi rimary Indica Si Hi Sa W Se Dr Alq Iro Su Int Sp eld Observa arface Water Presenturation Presentures	sy rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) urface Soil Cracks (B undation Visible on A varsely Vegetated Co ations: resent? Yes sent? Yes	one requi	ery (B7) face (B8)	X C P R S O	, 2, 4A, and call Crust (B1 equatic Inverted by Argument Crust (B2) and a call crust (B3) and a call crust (B4) and a call crust (B4	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Except MLRA g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Property in the state of the st	ators (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) addiment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Avarsely Vegetated Coations: resent? Yes sent? Yes finge)	one requi	Pary (B7) face (B8) No X No X No X	V 11 S A A B A B B B B B B B B B B B B B B B	, 2, 4A, and death Crust (B1 equatic Inverted by Arguer Sulf (B1 equatic Inverted Presence of Recent Iron Returned or Strother (Explain Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (reduction in Placessed Plants (and in Remarks) >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Property in the state of the st	sy rology Indicators stors (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) urface Soil Cracks (B undation Visible on A varsely Vegetated Co ations: resent? Yes sent? Yes	one requi	Pary (B7) face (B8) No X No X No X	V 11 S A A B A B B B B B B B B B B B B B B B	, 2, 4A, and death Crust (B1 equatic Inverted by Arguer Sulf (B1 equatic Inverted Presence of Recent Iron Returned or Strother (Explain Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (reduction in Placessed Plants (and in Remarks) >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Yetland Hydromary Indica Signature of the second o	ators (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) addiment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Avarsely Vegetated Coations: resent? Yes sent? Yes finge)	one requi	Pary (B7) face (B8) No X No X No X	V 11 S A A B A B B B B B B B B B B B B B B B	, 2, 4A, and death Crust (B1 equatic Inverted by Arguer Sulf (B1 equatic Inverted Presence of Recent Iron Returned or Strother (Explain Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (reduction in Placessed Plants (and in Remarks) >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
PMOLOG etland Hydrimary Indica Su Hi Sa W Se Dr All Iro Su Inu Sp eld Observa rface Water Pr tter Table Prese curation Preseeludes capillary fr	ators (minimum of urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) addiment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Avarsely Vegetated Coations: resent? Yes sent? Yes finge)	one requi	Pary (B7) face (B8) No X No X No X	V 11 S A A B A B B B B B B B B B B B B B B B	, 2, 4A, and death Crust (B1 equatic Inverted by Arguer Sulf (B1 equatic Inverted Presence of Recent Iron Returned or Strother (Explain Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (reduction in Placessed Plants (and in Remarks) >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site:	Oak Ridge							eys, and Coas		
Applicant/Owner:	Premier De			City/County:	McN	//innville/Yamil		Sampling Date:	10/24	1/2018
vestigator(s):		CM/JT	in, LLG	Costian Ta		Difference in the control of the con	State:		Sampling Point:	15
indform (hillslope, te		0111/01	Slope	_ Section, 10	wnship, Range:	According to the second se		17, Township 4		
ıbregion (LRR):	, rabb, c.o,	LRR A		Lat:		oncave, convex, n		······································	Slope (%):	5
il Map Unit Name:		LIVIV M		- Lat: Ity clay loam	45.22	8/5	_	-123.21544	Datum:	WGS8
e climatic/hydrologic	c conditions on	the cite to						sification:	None	
e vegetation				e or year? _significantly dist	Yes		No		ain in Remarks)	
	Soil	• ′	drology			Are "Normal C d, explain any ans		s" present? (Y/N)	N	
				_				·		
UMMARY OF F	INDINGS -	- Attac	h site map s	showing san	npling point	locations, tra	ansects,	important feat	ıres, etc.	
drophytic Vegetatio	n Present?	Yes	X No							
ydric Soil Present?		Yes _	No	X	is Sampled A a Wetla		Yes		NoX	
etland Hydrology Pro	esent?	Yes _	No	X			_	•		
marks:					.1					
FORTATION										
EGETATION - U	Use scienti	tic nam				1				
			absolute % cover	Dominant Species?	Indicator Status	Dominance 1	Fest works	sheet:		
ee Stratum (plot s	size:)				Number of Dom	inant Specie	es		
						That are OBL, F	ACW, or FA	ıC:	2 (A)
						Total Number of	f Dominant			
·						Species Across	All Strata:		2 (В)
				= Total Cover						
pling/Shrub Stratum	(plot size:)			Percent of Domi	nant Specie	s		
						That are OBL, F	ACW, or FA	NC:1	00% (A/B)
						Prevalence In				
						Total % Cover o		Multiply by: x 1 =	0	
			0	= Total Cover		FACW spec		x 2 =	0	
		•				FAC Speci		x3=	0	
<u>rb Stratum</u> (plot si	-)				FACU Spec	ies	x 4 =	0	
Alopecurus pra			70	Х	FAC	UPL Speci	ies	x5=	0	
Phalaris arundi	nacea		30	X	FACW	Column Tol	tals	0 (A)	<u> </u>	3)
	·									
***		_				Prevalence	Index =B/A	·= #[DIV/0!	
			 .			Hydrophytic '	Vegetation	Indicators:		
						riyaropnyuo		Rapid Test for Hydro	nhytic Vegetation	
								Dominance Test is >		
			100	= Total Cover				revalence Index is≤		
		_				-	4-N	lorphological Adapta	itions ¹ (provide su	porting
ody Vine Stratum	(plot size:))					a in Remarks or on a		
							·	Wetland Non-Vascul		
				T-1-1-0		Ir. e ·	-	blematic Hydrophyti		
		-	0	≈ Total Cover		'Indicators of hyd disturbed or prob		wetland hydrology m	ust be present, ur	nless
						Hydrophytic				
Bare Ground in Herb	Stratum	0				Vegetation		Yes X	No	
						Present?				

D	пσ	##

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Sam	nlina	Point:

1	5

Depth	Matrix	acpini	recueu	to docume		dicator or co ox Features	nfirm the abser	nce of indicators.)	
(Inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/2	100	longur - Pro- C	-				Silt Loam	Remarks
pan - I - Walling - Comme								OH LOUIN	TOTAL
			<u> </u>			-			
								<u> </u>	
T					·				
	entration, D=Depleti								² Location: PL=Pore Lining, M=Matrix.
	idicators: (Appli	cable to a	ali LRR	ls, unless	otherw			Indic	ators for Problematic Hydric Soils ³ :
	istosol (A1)			-		Sandy Redo			2 cm Muck (A10)
	istic Epipedon (A2)			-		Stripped Mat			Red Parent Material (TF2)
	ack Histic (A3)			-	·	Loamy Muck	y Mineral (F1)(e	xcept MLRA 1)	Very Shallow Dark Surface (TF12)
	ydrogen Sulfide (A4	,		_		Loamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
	epleted Below Dark		11)	_		Depleted Ma	trix (F3)		
***************************************	nick Dark Surface (A	,		-		Redox Dark	Surface (F6)		31-41-41-41-41-41-41-41-41-41-41-41-41-41
	andy Mucky Mineral			-		Depleted Dai	rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	andy Gleyed Matrix			_		Redox Depre	essions (F8)		problematic.
estrictive La	yer (if present):								
уре:									
						-		Hydric Soil Pres	sent? Yes No X
epth (inches):									
Depth (inches): Remarks:									
Remarks:		3;							
Remarks: HYDROLOG Vetland Hydr	Y		ired; ch	eck all tha	et apply)				
lemarks: HYDROLOG Vetland Hydr Irimary Indica	Y ology Indicators		ired; ch	eck all tha		Water stained	i Leaves (B9) (E		Secondary Indicators (2 or more required) Water stained Leaves (B9)
emarks: IYDROLOG /etland Hydr rimary Indica	Y ology Indicators tors (minimum of	one requi	ired; ch	eck all tha		Water stained	I Leaves (B9) (E		Secondary Indicators (2 or more required)
PYDROLOG Vetland Hydr rimary Indica Su	Y ology Indicators tors (minimum of rface Water (A1)	one requi	ired; ch	eck all tha			i Leaves (B9) (E 4B)		Secondary Indicators (2 or more required) Water stained Leaves (89)
emarks: IYDROLOG /etland Hydr rimary Indica Su Hig	Y ology Indicators tors (minimum of uface Water (A1) gh Water Table (A2)	one requi	ired; ch	eck all tha		1, 2, 4A, and Salt Crust (B1	i Leaves (B9) (E 4B)		Secondary Indicators (2 or more required) Water stained Leaves (89) (MLRA1, 2, 4A, and 4B)
IYDROLOG Vetland Hydr rimary Indica Su Hig Sa	Y ology Indicators tors (minimum of uface Water (A1) gh Water Table (A2) turation (A3)	one requi	ired; ch	eck all tha		1, 2, 4A, and Salt Crust (B1 Aquatic Inver	i Leaves (B9) (E 4B) [1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
emarks: IYDROLOG /etland Hydr rimary Indica Su High Sa With Se Dri	Y ology Indicators tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3)	one requi	ired; ch	eck all tha		1, 2, 4A, and Salt Crust (B1 Aquatic Inveri Hydrogen Sul	d Leaves (B9) (E 4B) 11) tebrates (B13) tfide Odor (C1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Vetland Hydr Irimary Indica Su Hii Sa Wi Se Dri	Y ology Indicators tors (minimum of rface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B ft Deposits (B3) gal Mat or Crust (B4	one requi	ired; ch	eck all tha		1, 2, 4A, and Salt Crust (B1 Aquatic Inveri Hydrogen Sul Oxidized Rhiz	d Leaves (B9) (E 4B) 11) tebrates (B13) tfide 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
IYDROLOG Vetland Hydr Irimary Indica Su Hite Sa Wi Se Dri Alg	ology Indicators tors (minimum of rface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) n Deposits (B5)	one requi	ired; ch	eck all tha		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R	i Leaves (B9) (E 4B) 11) tebrates (B13) tide Odor (C1) tospheres along Reduced Iron (Coteduction in Ploy	Except MLRA Living Roots (C3) 4) ved 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 (Carticles)
HYDROLOG Vetland Hydr Primary Indica Su Hit Sa Wit Se Dri Alg	Ology Indicators tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4 n Deposits (B5) urface Soil Cracks (E	one requi) 2))		eck all tha		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R	i Leaves (B9) (E 4B) 11) tebrates (B13) tide Odor (C1) tospheres along Reduced Iron (C-	Except MLRA Living Roots (C3) 4) ved 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) Geomorphic Position (D2) Shallow Aquitard (D3)
Permarks: HYDROLOG Vetland Hydr Irimary Indica Su Hit Sa With Se Dri Alg Iro Su Int	ology Indicators tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) n Deposits (B5) urface Soil Cracks (E	one requi 2) 36) Aerial Image	ery (B7)	- - - - -		1, 2, 4A, and Salt Crust (B1 Aquatic Inveri Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or St	i Leaves (B9) (E 4B) 11) tebrates (B13) tide Odor (C1) tospheres along Reduced Iron (Coteduction in Ploy	Except MLRA Living Roots (C3) 4) ved 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) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
Pemarks: IYDROLOG /etland Hydr rimary Indica Su Hit Sa Vii Se Dri Alg Iro Su	Ology Indicators tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4 n Deposits (B5) urface Soil Cracks (E	one requi 2) 36) Aerial Image	ery (B7)	- - - - -		1, 2, 4A, and Salt Crust (B1 Aquatic Inveri Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or St	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- teduction in Plov ressed Plants (D	Except MLRA Living Roots (C3) 4) ved 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 (Case of Case
HYDROLOG Vetland Hydr Primary Indica Su High Sa With Se Dri Alg Iro Su Int Sp	Y ology Indicators tors (minimum of rface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4 n Deposits (B5) rface Soil Cracks (E indation Visible on A arsely Vegetated Ca	one requi 2) 36) Aerial Image	ery (B7)	- - - - -		1, 2, 4A, and Salt Crust (B1 Aquatic Inveri Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or St	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- teduction in Plov ressed Plants (D	Except MLRA Living Roots (C3) 4) ved 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 (Case of Case
IYDROLOG Vetland Hydr Irimary Indica Sta High Sa With Irimary Indica Sta Irimary Indica Sta Irimary Indica Sta Irimary	ology Indicators tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) irface Soil Cracks (E undation Visible on Marsely Vegetated Cations:	one requi 2) 36) Aerial Image	ery (B7)	- - - - -		1, 2, 4A, and Salt Crust (B1 Aquatic Inveri Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or St	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- teduction in Plov ressed Plants (D	Except MLRA Living Roots (C3) 4) ved 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 (Case of Case
HYDROLOG Vetland Hydr Primary Indica Su Hii Sa Wii Se Dri Alg Iro Su Inu Sp	Y ology Indicators tors (minimum of orface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) orface Soil Cracks (E ordation Visible on A arsely Vegetated Co tions: esent? Yes	one requi 2) 36) Aerial Image	ery (B7) face (B8	-	Depth (1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Stunted or Stunted	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- teduction in Plov ressed Plants (D	Living Roots (C3) 4) ved Soils (C6) 11) (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 (Companies Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Vetland Hydr Irimary Indica Su Hill Sa Wi Se Dri Alg Iro Su Inu Inu Iriace Water Pr Vater Table Presentaturation Presentation	Y ology Indicators tors (minimum of trace Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) inface Soil Cracks (Eindation Visible on Aarsely Vegetated Cottions: esent? Yes ent? Yes	one requi 2) 36) Aerial Image	ery (B7) face (B8	- - - - - - - -	Depth (1, 2, 4A, and Salt Crust (Ba Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain	i Leaves (B9) (E 4B) (11) debrates (B13) dide Odor (C1) cospheres along Reduced Iron (C- deduction in Plov ressed Plants (D in in Remarks)	Living Roots (C3) 4) ved Soils (C6) 11) (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) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hydr Primary Indica Su High Sa With Se Dri Alg Iro Su Int. Sp ield Observa urface Water Pr Vater Table Prese atturation Presental cludes capillary fr	Y ology Indicators tors (minimum of trace Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) in Deposits (B5) inface Soil Cracks (Eindation Visible on Aarsely Vegetated Cottions: esent? Yes ent? Yes	one requi	ery (B7) face (B8 No No No	x x x	Depth (1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain inches): inches):	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- Reduction in Plov ressed Plants (D in in Remarks)	Living Roots (C3) 4) ved Soils (C6) 11) (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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Vetland Hydr Primary Indica Su High Sa With Se Dri Alg Iro Su Int. Sp ield Observa urface Water Pr Vater Table Prese atturation Presental cludes capillary fr	tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) n Deposits (B5) rface Soil Cracks (E undation Visible on Aarsely Vegetated Cottons: esent? Yes ent? Yes ent? Yes ent? Yes ent? Yes ent? Yes ent? Yes	one requi	ery (B7) face (B8 No No No	x x x	Depth (1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain inches): inches):	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- Reduction in Plov ressed Plants (D in in Remarks)	Living Roots (C3) 4) ved Soils (C6) 11) (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) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indica Su High Sa With Se Dri Alg Iro Su Inu Sp ield Observa aurface Water Pr fater Table Prese atturation Presentation Present	tors (minimum of urface Water (A1) gh Water Table (A2) turation (A3) ater Marks (B1) diment Deposits (B3) gal Mat or Crust (B4) n Deposits (B5) rface Soil Cracks (E undation Visible on Aarsely Vegetated Cottons: esent? Yes ent? Yes ent? Yes ent? Yes ent? Yes ent? Yes ent? Yes	one requi	ery (B7) face (B8 No No No	x x x	Depth (1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain inches): inches):	I Leaves (B9) (E 4B) I1) Itebrates (B13) Ifide Odor (C1) cospheres along Reduced Iron (C- Reduction in Plov ressed Plants (D in in Remarks)	Living Roots (C3) 4) ved Soils (C6) 11) (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) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

intaine V	alleys, and Co	PHS		6464
		_		(0040
	Sampling Date			
	OR			
	ion 17, Township			
ex, none):				
	-123.2154			
NWI C	lassification:	Nor	ne	
No	(if no, ex	plain in Rema	rks)	
al Circumsta	nces" present? (Y/N)	<u> Y</u>		
answers in F	Remarks.)			
, transect	s, important fea	tures, etc.		
Vec	. X	No		
100	<u> </u>	No		
				THE STREET OF STREET
e Test wo	rksheet:			
aminant Ca	!			
Dominant Spe		4		
L, FACW, or	PAC.	1	—— ^{(A}	١)
er of Domina	nt			
oss All Strata		1	(E	3)
	V			,
ominant Spe	ooioc			
L, FACW, o		100%	(A	/R)
-, 1 AOVV, O		10076		<i>VD)</i>
e Index W	orksheet:			
er of	Multiply b	<u>y:</u>		
pecies	x 1 =	0		
species	x2=			
Species Species	x3=			
Species	x4=			
ipecies n Totals	x5=	0		
i iulais	(A)	0	— ^(B)	•
lence Index =	B/A = :	#DIV/0!		
tic Vegetat	tion Indicators:			
	1- Rapid Test for Hyd	rophytic Veget	ation	
	2- Dominance Test is			
	3-Prevalence Index is			
	4-Morphological Adap	otations¹ (provi	de sup	porting
	data in Remarks or or	n a separate sh	neet)	
	C 18/-41 1 81 22	1		

WE	TLAND	DETE	RMINATI	ON DATA FO	JRM - West	tern Mountains, Valleys, and Coast Region
	oak Ridge			City/County:		Minnville/Yamill Sampling Date: 10/24/2018
Applicant/Owner: P	Premier De	velopm	nent, LLC			State: OR Sampling Point: 16
Investigator(s):	W1237	CM/JT		Section, T	Fownship, Range:	
Landform (hillslope, terra	ace, etc.:)		Depress	sion	Local relief (c	concave, convex, none): Concave Slope (%): 0
Subregion (LRR):		LRR A	Α	Lat:	45.22	
Soil Map Unit Name:			Waldo	silty clay loam		NWI Classification: None
Are climatic/hydrologic co	onditions or	the site	typical for this	time of year?	Yes	s X No (if no, explain in Remarks)
Are vegetation	Soil	or H	ydrology _	significantly dis	sturbed?	Are "Normal Circumstances" present? (Y/N)
Are vegetation	Soil	or H	ydrology _	naturally probl	ematic? If needs	ed, explain any answers in Remarks.)
RIIMMARY OF FIN	ייטואופג.					
Hydrophytic Vegetation F	Present?	Yes			npling point	t locations, transects, important features, etc.
Hydric Soil Present?		Yes _		No	is Sampled A	Area within
		_		No	a Wetla	and? Yes X No
Netland Hydrology Prese	ent?	Yes _	<u> </u>	No		
Remarks:						
/EGETATION - Us	e scient	ific nar	mes of pla	nte		
		IIV	absolute		Indicator	Dominance Test worksheet:
			% cover		Status	Dominance rest worksheet.
<u>ree Stratum</u> (plot size	»:)		-		Number of Dominant Species
1			···			That are OBL, FACW, or FAC: 1 (A)
2						_
3						Total Number of Dominant
4			_			Species Across All Strata: 1 (B)
			0	= Total Cover		
	(plot size:		_)			Percent of Dominant Species
1						That are OBL, FACW, or FAC:(A/B)
2						
3						Prevalence Index Worksheet:
4				_		Total % Cover of Multiply by:
5				-		OBL Species x 1 = 0
			0	= Total Cover		FACW species x2 = 0
erb Stratum (plot size	e: 5	. ,				FACUS period x 3 = 0
<u>eip Stratum</u> (piot size 1 <i>Phalaris arundina</i>			100	X	FACW	FACU Species x 4 = 0
)	Cea		100		PACTY	UPL Species x5 = 0
}	 					Column Totals 0 (A) 0 (B)
1			 ,			Prevalence Index =B/A = #DIV/0!
5						Prevalence index =D/A - #DIV/UI
3						Hydrophytic Vegetation Indicators:
7						1- Rapid Test for Hydrophytic Vegetation
						X 2- Dominance Test is >50%
}			100	= Total Cover	 	3-Prevalence Index is < 3.01
}				·		4-Morphological Adaptations¹ (provide supporting
3)			data in Remarks or on a separate sheet)
oody Vine Stratum (pl	lot size:		.′			5- Wetland Non-Vascular Plants ¹
oody Vine Stratum (pl	lot size:					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
oody Vine Stratum (pl	lot size:					Problematic Hydrophytic Vegetation ¹ (Explain)
3 ' <u>oody Vine Stratum</u> (pl	lot size:	Transcommission	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless
3 <u>'oody Vine Stratum</u> (pl	lot size:		0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
S (oody Vine Stratum) (pl			0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless

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	ption: (Describe to t	he depth	needed to docum			nfirm the abse	nce of indicators.)	
Depth (Inches)	Matrix Color (moist)	%	Color (moist)	Redo %	x Features Type ¹	Loc ²	Tartura	m
0-8	10YR 3/1	90	7.5YR 4/6	10	C		Texture	Remarks
8-16	10YR 3/1	85	7.5YR 4/6	5	***************************************	PL	Silty Clay Loam	Fine
8-16		- 00			<u> </u>	M	Silty Clay Loam	Fine
			7.5YR 4/6	10		PL_	Silty Clay Loam	Fine
						-		
								
		4				-		
17. 0.0				-				DOMESTIC CONTROL OF THE PROPERTY OF THE PROPER
	centration, D=Depletion					The state of the s		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Appli	cable to	all LRRs, unles				Indica	tors for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redo			2 cm Muck (A10)
	Histic Epipedon (A2)				Stripped Mat	` ,		Red Parent Material (TF2)
	Black Histic (A3)						except MLRA 1)	Very Shallow Dark Surface (TF12)
	dydrogen Sulfide (A4)					ed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	·	N11)		Depleted Ma	, ,		
	Thick Dark Surface (A	•			Redox Dark	` ,		³ Indicators of hydrophytic vegetation and wetland
	Sandy Mucky Mineral	• •			•	rk Surface (F7)		hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix (54)			Redox Depre	essions (F8)		problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inches):			· · · · · · · · · · · · · · · · · · ·	_		Hydric Soil Pres	ent? Yes X No
Remarks:							-	
HYDROLO	GY							
Wetland Hyd	Irology Indicators	:						
Primary Indic	ators (minimum of	one real	iired: check all th	at annly)				Secondary Indicators (2 or more required)
	Surface Water (A1)	ono roqu	anda, oneok an th	· · · · · · · · · · · · · · · · · · ·	Water stained	Leaves (B9) (Except MLRA	Water stained Leaves (B9)
	ligh Water Table (A2)				1, 2, 4A, and			(MLRA1, 2, 4A, and 4B)
	Saturation (A3)				Salt Crust (B	11)		Drainage Patterns (B10)
v	Vater Marks (B1)					tebrates (B13)		Dry-Season Water Table (C2)
	Sediment Deposits (B2	2)			Hydrogen Su	lfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	Orift Deposits (B3)			Х	Oxidized Rhiz	zospheres alon	g Living Roots (C3)	X Geomorphic Position (D2)
A	lgal Mat or Crust (B4))			Presence of F	Reduced Iron (0	C4)	Shallow Aquitard (D3)
	on Deposits (B5)				Recent Iron Reduction in Plowed Soils (C6)			X Fac-Neutral Test (D5)
	Surface Soil Cracks (B				Stunted or St	ressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	nundation Visible on A				Other (Explai	n in Remarks)		Frost-Heave Hummocks (D7)
	parsely Vegetated Co	ncave Su	ırface (B8)					
Field Observ	ations:				-			A CONTRACTOR AND A CONT
Surface Water I	Present? Yes		No X	Depth ((inches):			
Water Table Pre	esent? Yes _		No <u>X</u>	Depth ((inches):	>16	Wetland Hydro	ology Present?
Saturation Pres (includes capillary	_		No X	Depth ((inches):	>16		Yes X No
Describe Recor	ded Data (stream gau	ge, monit	oring well, aerial ph	otos, previ	ous inspectio	ns), if available		
	, 9		,	, p	5p = 500	/i = 1 a.i.a.bio	-	
Remarks:					· · · · · · · · · · · · · · · · · · ·			

WETLAND DETE	RMINATIO	N DATA FO	RM - West	ern Mount	tains, Vall	leys, and C	PHS # Coast Region	6464
Project/Site: Oak Ridge Subdivi		City/County:		/linnville/Yar		Sampling D	_	18/2018
Applicant/Owner: Premier Developm						OR	Sampling Point	
Investigator(s): CM/JT	· · · · · · · · · · · · · · · · · · ·	Section, To	ownship, Range:	, , , , , , , , , , , , , , , , , , , ,	-	0.00	ip 4S, Range 4W	######################################
Landform (hillslope, terrace, etc.:)	Slope			oncave, conve		None		
Subregion (LRR): LRR A	,	Lat:	45.22		Long:	-123.215		
Soil Map Unit Name:		 urn silt loam			· -	ssification:		. *************************************
Are climatic/hydrologic conditions on the site t			Yes	X			, explain in Remarks)	
Are vegetation Soil X or Hy		-						<i>f</i>
Are vegetation Soil or Hy							/19)	-
		_naturally proble	matic: if neede	u, expiain any	atiswets in Re	marks.)		
SUMMARY OF FINDINGS - Attac	h site map	showing san	npling point	locations,	transects,	important f	eatures, etc.	
Hydrophytic Vegetation Present? Yes	X No							
Hydric Soil Present? Yes	No.	X	Is Sampled A a Wetla		Yes		No X	
Wetland Hydrology Present? Yes	No	X						-
Remarks:								
Highly compacted gravel in the upper	r 3 inches of	the soil.						
VEGETATION - Use scientific nan								
	absolute % cover	Dominant Species?	Indicator Status	Dominano	e Test work	sheet:		
Tree Stratum (plot size:)		ороско.	Otatao	Number of D	ominant Spec	ies		
1				1	L, FACW, or F		2	(A)
2								_ (
3				Total Numbe	er of Dominant			
4				Species Acre	oss All Strata:		2	_(B)
	0	= Total Cover						
Sapling/Shrub Stratum (plot size:	_)			Percent of D	ominant Speci	es		
1				That are OB	L, FACW, or F	AC:	100%	(A/B)
2								-
3				Prevalenc	e Index Wor	ksheet:		
4		***************************************		Total % Cov	er of	Multip	ly by:	
5				OBL S		x	1 = 0	-
	0	= Total Cover		FACW s	· -	*	2 = 0 3 = 0	-
Herb Stratum (plot size: 5)				FACUS	-		4= 0	-
1 Phalaris arundinacea	75	Х	FACW	UPL S			5 = 0	-
2 Dipsacus fullonum	20	X	FAC	Column		0 (A)	0	- (B)
3 Holcus lanatus	5		FAC			` '	***	x 2 - 2
4				Prevale	ence Index =B/	'A =	#DIV/0!	_
5								-
6				Hydrophyt	ic Vegetatic	on Indicators:		
						Rapid Test for I	Hydrophytic Vegetatio	วท
8	400				***************************************	Dominance Tes		
	100	= Total Cover				Prevalence Inde		aum artina
Woody Vine Stratum (plot size:)						daptations¹ (provide s or on a separate shee	
1	•					Wetland Non-V	•	9
2				-			ophytic Vegetation ¹ (E	Explain)
	0	= Total Cover		¹ Indicators of			ogy must be present,	

disturbed or problematic. Hydrophytic

Yes X

No_

Vegetation

Present?

0

% Bare Ground in Herb Stratum

Remarks:

^	_	

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Depth	Matrix	<u> </u>			x Features	min tile aps	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks
0-1	Gravel	19		with the same of t			Gravel	
0-1	10YR 3/2	80	10YR 4/6	1	С	PL	Silty Clay Loam	Fine
1-3	10YR 3/2	90	7.5YR 4/6	10	C	М	Silty Clay Loam	Coarse
3-10	10YR 3/2	99	10YR 4/6	1	С	M	Silty Clay Loam	Fine
· · · · · · · · · · · · · · · · · · ·	and the second							
·			• School of the					policies and the second
ype: C=Conc	entration, D=Depletion	on, RM=Re	educed Matrix, CS=	Covered or	Coated Sand	d Grains		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Appli							tors for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
}	distic Epipedon (A2)				Stripped Matr	• •		Red Parent Material (TF2)
E	Black Histic (A3)					• •	(except MLRA 1)	Very Shallow Dark Surface (TF12)
H	Hydrogen Sulfide (A4)	,		Loamy Gleye			Other (explain in Remarks)
	Depleted Below Dark	Surface (A	·11)		Depleted Mat			other (explain in remarks)
	Thick Dark Surface (A				Redox Dark S	. ,		
8	Sandy Mucky Mineral	(S1)				k Surface (F7)	:	³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix		•		Redox Depres	` '		hydrology must be present, unless disturbed or problematic.
	ayer (if present):						1	problematic.
rpe:	, c. (p. 666.10).		on Dools					
pe. epth (inches)			or Rock		-			
par (mones)			0		-		Hydric Soil Prese	ent? Yes No X
ghly comp	pacted gravel in u	pper 3 in	ches of soil. Co	ncrete a	t 10 inches	•		
ghly comp			ches of soil. Co	ncrete a	t 10 inches	•		
YDROLOG	ЭY	s:			t 10 inches			Secondary Indicators (2 or more required)
ghly comp YDROLOG etland Hyd imary Indica	GY Irology Indicators	s:		at apply) V	Vater stained	Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
yDROLOO etland Hyd imary Indic	GY Irology Indicators ators (minimum of Jurface Water (A1) ligh Water Table (A2)	s: one requ		at apply) V		Leaves (B9) (Except MLRA	
yDROLOG etland Hyd imary Indic	GY Irology Indicators ators (minimum of urface Water (A1)	s: one requ		at apply) V	Vater stained	Leaves (B9) (Except MLRA	Water stained Leaves (B9)
YDROLOG etland Hyd imary Indic	GY Irology Indicators ators (minimum of Jurface Water (A1) ligh Water Table (A2)	s: one requ		at apply) V 1	Vater stained , 2 , 4A , and ⁴ Salt Crust (B1	Leaves (B9) (Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOG etland Hyd imary Indica S H S W	GY Irology Indicators ators (minimum of aurface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2)	s: one requ		at apply)	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte	Leaves (B9) (4B) 1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOG etland Hyd imary Indica S H S W S	ators (minimum of ourface Water (A1) ligh Water Table (A2) laturation (A3) vater Marks (B1) ediment Deposits (B3) rift Deposits (B3)	one requ		at apply) V 1 S A	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte tydrogen Sulf	Leaves (B9) (4 B) 1) ebrates (B13) ide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOG etiand Hyd imary Indica S H S W S	Irology Indicators ators (minimum of aurface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) Igal Mat or Crust (B4)	one requ		at apply) V 1 5 A	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhizo	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) ospheres alon educed Iron (g Living Roots (C3) C4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
YDROLOG etland Hyd imary Indic S H S W S D A	Irology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5)	one requ		at apply) V 1 5 A C F	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Existing Researce of Researc	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) ospheres alon educed Iron (eduction in Pla	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2)
YDROLOG etland Hyd imary Indica s H s u s In	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (B	one requ 2)	ired; check all tha	at apply) V 1 S A F S S	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (eduction in Pla essed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOG etland Hyd imary Indica S H S U S In	ators (minimum of Juriace Water (A1) Jigh Water Table (A2) Jaturation (A3) Vater Marks (B1) Jediment Deposits (B3) Jigal Mat or Crust (B4 Jon Deposits (B5) Juriace Soil Cracks (B1 Juriace Soil Crack	one requi	ired; check all that	at apply) V 1 S A F S S	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Existing Researce of Researc	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (eduction in Pla essed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
YDROLOG etland Hyd imary Indic S W S D A Irr S In	Irology Indicators ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (B undation Visible on A parsely Vegetated Co	one requi	ired; check all that	at apply) V 1 S A F S S	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (eduction in Pla essed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hyd imary Indica S H S U S In S In S eld Observ	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations:	one requi	ired; check all that	at apply) V 1 S A F S S	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (eduction in Pla essed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hyd imary Indic: S W S In S In Seld Observ.	Irology Indicators ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (B oundation Visible on A parsely Vegetated Co ations: Present? Yes	one requi	ired; check all that	at apply) V 1 S A F S S	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (eduction in Pla essed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hyd rimary Indice S H S U In S In S eld Observerface Water F	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes	one requi	ired; check all that	at apply) V 1 S A F C F S C	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte flydrogen Sulf Dxidized Rhizo Presence of R Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (eduction in Pla essed Plants (g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG etland Hyd cimary Indice S H S In S leld Observerface Water F atter Table Presenter Table Presenter S turation Presenter S	ators (minimum of aurface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes earl? Yes	one requi	ired; check all that	at apply) V 1 5 6 6 7 F 6 C C Depth (i	Vater stained , 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte dydrogen Sulf Didized Rhize Presence of Recent Iron Restunted or Street Other (Explain Inches):	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) ospheres alon educed Iron (eduction in Pla essed Plants (in Remarks)	g Living Roots (C3) C4) owed 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG etiand Hyd rimary Indica S H S W S In S In S Leid Observ. rface Water F ater Table Prese sturation Prese studes capillary	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Water Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes esent? Yes ent? Yes fringe)	one requipment of the control of the	ery (B7) -face (B8) No X No X No X	at apply) 1 5 A F S C Depth (i Depth (i	Vater stained , 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre Other (Explain Inches): Inches): Inches): Inches): Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (4 eduction in Pk essed Plants (4 in Remarks) >10 >10	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG etiand Hyd rimary Indica S H S W S In S In S Leid Observ. rface Water F ater Table Prese sturation Prese studes capillary	ators (minimum of aurface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes earl? Yes	one requipment of the control of the	ery (B7) -face (B8) No X No X No X	at apply) 1 5 A F S C Depth (i Depth (i	Vater stained , 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre Other (Explain Inches): Inches): Inches): Inches): Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (4 eduction in Pk essed Plants (4 in Remarks) >10 >10	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG etland Hyd imary Indica S H S W S In S In S eld Observ. rface Water F ster Table Prese ludes capillary	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Water Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes esent? Yes ent? Yes fringe)	one requipment of the control of the	ery (B7) -face (B8) No X No X No X	at apply) 1 5 A F S C Depth (i Depth (i	Vater stained , 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre Other (Explain Inches): Inches): Inches): Inches): Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (4 eduction in Pk essed Plants (4 in Remarks) >10 >10	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
yDROLOG etland Hyd imary Indica S H S W S In S In S eld Observ. face Water F ter Table Prese uration Prese udes capillary	ators (minimum of ourface Water (A1) ligh Water Table (A2) aturation (A3) Water Marks (B1) ediment Deposits (B3) ligal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes esent? Yes ent? Yes fringe)	one requipment of the control of the	ery (B7) -face (B8) No X No X No X	at apply) 1 5 A F S C Depth (i Depth (i	Vater stained , 2, 4A, and 4 Salt Crust (B1' Aquatic Inverte dydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre Other (Explain Inches): Inches): Inches): Inches): Inches): Inches	Leaves (B9) (4B) 1) ebrates (B13) ide Odor (C1) espheres alon educed Iron (4 eduction in Pk essed Plants (4 in Remarks) >10 >10	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

,	WETLAND DE	ETERMINATIO	ON DATA FO	RM - West	ern Mountai	ins, Valle	eys, and Coas	PHS# t Region	6464
Project/Site:	Oak Ridge Sul	bdivision	City/County:	Mcf	Minnville/Yamil	1	Sampling Date:	10/18	3/2018
Applicant/Owner:	Premier Devel	opment, LLC			Où-	State:		Sampling Point:	18
Investigator(s):	СМ	/JT	Section, To	ownship, Range		Section	17, Township 4S	, Range 4W	
Landform (hillslope,	terrace, etc.:)	Hillslo	pe	Local relief (co	oncave, convex, n		None	Slope (%):	10
Subregion (LRR):	L	RR A	Lat:	45.22	845	Long:	-123.21558	Datum:	WGS8
Soil Map Unit Name	:	Woodl	burn silt loam			NWI Class	sification:	- None	
Are climatic/hydrolog	gic conditions on the	site typical for this	time of year?	Yes	X	No	(if no, expla	ain in Remarks)	
Are vegetation	Soil X	or Hydrology	significantly dis	turbed?	Are "Normal C		s" present? (Y/N)	Y	
Are vegetation	Soil	or Hydrology	naturally proble	matic? If neede	d, explain any ans			· · · · · · · · · · · · · · · · · · ·	
SUMMARY OF	EINDINGS 4								
				npling point	locations, tr	ansects,	important featu	res, etc.	
Hydrophytic Vegetat			0	Is Sampled A	rea within				
Hydric Soil Present?			0	a Wetla		' Yes_	<u>X</u> !	40	
Wetland Hydrology F	Present? Yes	* <u>X</u> N	0						
	ompacted with g					•••			
	occ colemnic	absolute	Dominant	Indicator	Dominance '	Toet work	hoot:		
		% cover	Species?	Status	Dominance	I CST MOLK	Sneet.		
Tree Stratum (plo	t size:)			Number of Dom	inant Specie	es		
1					That are OBL, F	FACW, or FA	AC:	2 (A)
2					.				
3				P	Total Number o	f Dominant			
4			T. 10		Species Across	All Strata:		2 (B)
		0	= Total Cover						
Sapling/Shrub Stratu		15)			Percent of Dom	•			
1 Rubus armen	lacus	2		FAC	That are OBL, F	ACW, or F	AC: <u>1</u>	00% (A/B)
3					Dravalanas I				
4					Prevalence I				
5					Total % Cover of OBL Spec		Multiply by: x 1 =	_ ₀	
		2	= Total Cover		FACW spe		x1=	0	
					FAC Spec	-	x3=	0	
	size: 5)			FACU Spe	cies	x 4 =	0	
1 Juncus effusi		60	<u>X</u>	FACW	UPL Spec		x5=	0	
2 Phalaris arun 3 Dipsacus fulle		40	X	FACW	Column To	tals	0 (A)	0 (3)
3 Dipsacus fulle 4	J. I.	<1		FAC		= -		.0.401	
5					Prevalence	e Index =B/A	\ = #C	IV/0I	
6					Hydrophytic	Vonatatia	a Indiantaria		
7				ł	nyuropnyuc		n indicators: Rapid Test for Hydro	nhytic Vegetation	
8					-		Rapid Test for Hydro Dominance Test is >5		
		100	= Total Cover	H-1			revalence Index is≤	_	
							forphological Adapta		pporting
Noody Vine Stratum	(plot size:)				dat	a in Remarks or on a	separate sheet)	
12							Wetland Non-Vascula		

disturbed or problematic.

Yes X No ___

Hydrophytic Vegetation Present?

% Bare Ground in Herb Stratum

Remarks:

D	HS	##	

_		
Sam	plina	Point:

1	Я

	ption: (Describe to t	he depth	needed to docume			firm the abse	nce of indicators.)	
Depth (Inches)	Matrix Color (moist)	0/	Onland (marie)		x Features	1 2		
0-1	Color (moist)	<u>%</u>	Color (moist)		Type'	Loc ²	Texture	Remarks
1-12	10YR 3/2	98	7.5YR 4/6			PL	Silt Loam	Gravel; Fine
1-12	7.5YR 3/2	95	7.5YR 4/4	5	<u> </u>	M	Silt Loam	Fine
				10111011	-	Other Control of the		
	and the second s			<u> </u>	-			
¹ Type: C=Cond	entration, D=Depletio	n, RM≕R	educed Matrix, CS=0	Covered o	r Coated San	d Grains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applie	cable to	all LRRs, unless	otherw	ise noted.)		Indica	ators for Problematic Hydric Soils ³ :
<u> </u>	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
}	Histic Epipedon (A2)				Stripped Mate	ix (S6)		Red Parent Material (TF2)
[E	Black Histic (A3)				Loamy Mucky	/ Mineral (F1) (e	xcept MLRA 1)	Very Shallow Dark Surface (TF12)
<u> </u> }	lydrogen Sulfide (A4)				Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A	A11)		Depleted Mat			
]7	hick Dark Surface (A	12)	•		Redox Dark S			
	Sandy Mucky Mineral	(S1)	•		Depleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix (S4)	'		Redox Depre			hydrology must be present, unless disturbed or problematic.
Restrictive L	ayer (if present):						Name of the last o	F
Туре:	, (p							
Depth (inches)	•				-			
Remarks:							Hydric Soil Pres	ent? Yes X No
Remarks.								
HYDROLO	3Y							
Wetland Hyd	Irology Indicators	:						
Primary Indic	ators (minimum of	one requ	uired; check all the	at apply)				Secondary Indicators (2 or more required)
	urface Water (A1)					Leaves (B9) (B	xcept MLRA	Water stained Leaves (B9)
H	ligh Water Table (A2)		•		1, 2, 4A, and		•	(MLRA1, 2, 4A, and 4B)
S	aturation (A3)				Salt Crust (B1	1)		Drainage Patterns (B10)
v	Vater Marks (B1)				Aquatic Invert	ebrates (B13)		Dry-Season Water Table (C2)
s	ediment Deposits (B2	2)	_		Hydrogen Sul	ide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
D	rift Deposits (B3)		_	Х	Oxidized Rhiz	ospheres along	Living Roots (C3)	Geomorphic Position (D2)
A	lgal Mat or Crust (B4)	ı			Presence of R	educed Iron (C	4)	Shallow Aquitard (D3)
<u> </u>	on Deposits (B5)		_		Recent Iron R	eduction in Ploy	ved Soils (C6)	X Fac-Neutral Test (D5)
s	urface Soil Cracks (B	6)	_	·	Stunted or Str	essed Plants (D	01) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Ir	undation Visible on A	erial Imaç	gery (87)		Other (Explain	in Remarks)		Frost-Heave Hummocks (D7)
s	parsely Vegetated Co	ncave Su	rface (B8)					
Field Observ	ations:							
Surface Water F	Present? Yes		No <u>X</u>	Depth ((inches):			
Water Table Pre	esent? Yes _		No X	Depth ((inches):	>12	Wetland Hydr	ology Present?
Saturation Prese	_		No X	Depth ((inches):	>12	•	Yes X No
	ded Data (stream gau	ge, monit	oring well, aerial pho	tos previ	ous inspection	s) if available:		
	. (3 3	J - , .	astrai pric	PIO41	- 20 " IOPGOIIO!	,, ii available.		
Remarks:			A SAME OF THE SAME					
Area is a see	p, but also receiv	es hydr	ology from a sma	all drain	age pipe at	the south er	nd of the wetland	l.

oast R	PHS # egion	6464
	10/2	4/2018
		19
	Slope (%):	
3		WGS84
	None	
explain in	Remarks)	
۷)	Υ	
atures	, etc.	
No_		
····		
2		(A)
2		(B)
100%		(A/B)
by: = = = = = = = = = = = = = = = = = = =	0 0 0 0	В)
#DIV/0	!	
is >50% is ≤ 3.0 ¹	Vegetation	

V	VETLAND	DET	ERMINA	TION	DATA FO	RM - West	ern Mountai	ins, Vall	leys, ar	d Coa	st Region	0404
Project/Site:	Oak Ridge				City/County:		Minnville/Yamil			ling Date:		24/2018
Applicant/Owner:	Premier Do			-	,			State:	,	ing Date.	Sampling Point	
Investigator(s):			-		Section, Tr	ownship, Range:		-		nshin 4	S, Range 4W	. 13
Landform (hillslope, to				race	•		oncave, convex, n			one	***************************************	: 3
Subregion (LRR):		LRF	ŁΑ	-	Lat:	45.22		Long:	***************************************	.21453	Olope (70) Datum	
Soil Map Unit Name:			Wald	lo sil	ty clay loam			_	sification:		— None	
Are climatic/hydrologi	ic conditions or	n the site				Yes	X				lain in Remarks)	
Are vegetation	Soil	or l	Hydrology		significantly dist	turbed?	Are "Normal C					
Are vegetation	Soil						d, explain any ans			., (,		-
SHARA DV OF I	FINDINGS											
SUMMARY OF I	FINDINGS				howing san	npling point	locations, tra	ansects,	importa	ent feat	ures, etc.	
Hydric Soil Present?	on Present?	Yes Yes	<u>X</u>		par	is Sampled A	rea within					
Wetland Hydrology Pr	ranant?		X	. No .		a Wetla	nd?	Yes_	<u>X</u>		No	-
	esent?	Yes	X	No .								
Remarks:												
VEGETATION -	Use scient	ific na	mes of p	lants	<u> </u>							
			absolut		Dominant	Indicator	Dominance 1	Test work	sheet:			
Tree Stratum (plot s	oizo:		% cove	<u>-</u>	Species?	Status						
1	5126.		.'				Number of Dom	•			_	
2							That are OBL, F	-ACW, or FA	AC:		2	.(A)
2							Total Number of	f Dominant				
4					······································		Species Across				2	(B)
			0	_ ;	= Total Cover				-			.(-/
Sapling/Shrub Stratum	1 (plot size:)				Percent of Domi	inant Specie	es			
1							That are OBL, F				100%	(A/B)
2									_			· · · · · · · · · · · · · · · · · · ·
3							Prevalence Ir	ndex Wor	ksheet:			
5							Total % Cover o		1	Multiply by	<u>: </u>	
J			0		T-1-1 0		OBL Spec			x 1 =	0	
				-	= Total Cover		FACW spec			x 2 = x 3 =	0	
Herb Stratum (plot s	size:	5)				FACU Spec			x 4 =	0	
1 Alopecurus pre			80		X	FAC	UPL Speci	-		x 5 =	0	
2 Phalaris arund	inacea		20		X	FACW	Column To	tals	0 (A)	0	(B)
3 4												
5		***************************************					Prevalence	e Index =B//	A =	#	DIV/0!	
6							Hydrophytic '	Vocatatio	n Indicat	.0.201		·
7							riyaropnync				phytic Vegetatio	n
8									Dominano			11
			100	_ =	Total Cover				Prevalence			
Mondy Vima Charles	(nlet size:		,								ations¹ (provide s	· · · ·
Noody Vine Stratum 1	(plot size:		- '								a separate sheet)
2			····						Wetland N			1. 1. 1.
			0		Total Cover		¹ Indicators of hyd				ic Vegetation ¹ (E)	•
							disturbed or prob		arodanu ()	, arology II	nuar na hieseiil,	ui i(C33
% Bare Ground in Herb	Stratum		0				Hydrophytic					
- Salo Siodila ili Helb	, Juatum		0				Vegetation Present?		Yes_	<u> </u>	_ ^{No} -	
Remarks:							1		· · · · · · · · · · · · · · · · · · ·			

PHS	Ħ	

Sampling Point:

Depth	Matrix				Features		ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/1	100					Silty Clay Loam	
4-8	10YR 3/1	95	5YR 3/4	5	<u> </u>	PL	Silty Clay Loam	Fine
8-12	10YR 3/1	85	5YR 3/4	5	<u>c</u>	PL	Silty Clay Loam	Fine
8-12			10YR 4/2	10	<u>D</u>	M	Silty Clay Loam	Fine
						·		
		Particular and Partic					MONTH OF THE PARTY	particular and a second
	Marine Ma		A CONTRACT AND A CONT	- I				
¹Type: C=Conc	entration, D=Depletio	n, RM=Red	duced Matrix, CS=C	overed or	Coated San	d Grains.		² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applic	cable to a	all LRRs, unless	otherwis	se noted.)		Indica	tors for Problematic Hydric Soils³:
	distosol (A1)		_	s	andy Redox	x (S5)		2 cm Muck (A10)
	Histic Epipedon (A2)				tripped Mat	. ,		Red Parent Material (TF2)
			oamy Muck	y Mineral (F1)	except MLRA 1)	Very Shallow Dark Surface (TF12)		
	lydrogen Sulfide (A4)		-	L	oamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark S		11) _	D	epleted Mat	trix (F3)		
	hick Dark Surface (A	•	_			Surface (F6)		3
	Sandy Mucky Mineral (` '	_	D	epleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	andy Gleyed Matrix (S4)	-	R	edox Depre	ssions (F8)		problematic.
Restrictive L	ayer (if present):							
Гуре:								
Depth (inches)	:						Hydric Soil Prese	ent? Yes X No
Remarks:							Tryunc 3011 Flese	Tes X NO
Remarks: HYDROLOG Wetland Hyd	3Y rology Indicators						Tryunc 3011 Flese	NO
Remarks: HYDROLOC Wetland Hyd Primary Indica	SY rology Indicators ators (minimum of o		red; check all that					Secondary Indicators (2 or more required)
HYDROLOG Wetland Hyd Primary Indica	GY rology Indicators: ators (minimum of our of courts)		red; check all that	W			Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOG Wetland Hyd Primary Indica Si	GY rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2)		red; check all that	W	2, 4A, and	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Wetland Hyd Primary Indica SI H	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3)		red; check all that	W 1, Sa	2,4A, and alt Crust (B1	4B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOG Wetland Hyd Primary Indica S H	FY rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1)	one requi	red; check all that	W 1, Sa Ad	2, 4A, and alt Crust (B1 quatic Invert	4B) 1) ebrates (B13)	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)
HYDROLOG Wetland Hyd Primary Indica Si H Si	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3)	one requi	red; check all that	W 1, Sa Ac	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul	4B) 1) ebrates (B13) fide 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
HYDROLOG Wetland Hyd Primary Indica H Si W	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2)	one requi	ired; check all that	W 1, Sa Ac Hy X Ox	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sultidized Rhiz	4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA g 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 (Caracteristics)
HYDROLOG Wetland Hyd Primary Indica S H S: W SI	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2)	one requi	ired; check all tha	W 1, Sa Ac Hy X Ox	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R	4B) 11) rebrates (B13) fide Odor (C1) rospheres alon Reduced Iron (G	Except MLRA g 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 (C3)
HYDROLOC Wetland Hyd Primary Indica Si H Si W Si Indicates	rology Indicators: ators (minimum of curface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4)	one requi	ired; check all tha	W 1, Sa Ac Hy X O Pre	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R	4B) 11) rebrates (B13) fide Odor (C1) rospheres alon Reduced Iron (G	Except MLRA g Living Roots (C3) C4) 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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOG Wetland Hyd Primary Indica Si H Si W Si Ai	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	one requi		W 1, Se Ac Hy X Ox Pri Re	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str	4B) 11) rebrates (B13) fide Odor (C1) rospheres alon Reduced Iron (Called)	Except MLRA g Living Roots (C3) C4) 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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
HYDROLOC Wetland Hyd Primary Indica Si H Si W Si In	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) iff Deposits (B3) igal Mat or Crust (B4) on Deposits (B5)	one requii		W 1, Se Ac Hy X Ox Pri Re	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str	4B) (1) (ebrates (B13) (fide Odor (C1) (cospheres alon (Reduced Iron (C) (deduction in Pic- (ressed Plants (Except MLRA g Living Roots (C3) C4) 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: Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOC Wetland Hyd Primary Indica Si H Si W Si In	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) iff Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) curface Soil Cracks (B6) undation Visible on Ae parsely Vegetated Col	one requii		W 1, Se Ac Hy X Ox Pri Re	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str	4B) (1) (ebrates (B13) (fide Odor (C1) (cospheres alon (Reduced Iron (C) (deduction in Pic- (ressed Plants (Except MLRA g Living Roots (C3) C4) 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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indica Si H Si V Si In Si	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 ourface) Vegetated Contactions:	one requing (a) (b) (c) (d) (e) (d)		W 1, Se Ac Hy X Ox Pri Re	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair	4B) (1) (ebrates (B13) (fide Odor (C1) (cospheres alon (Reduced Iron (C) (deduction in Pic- (ressed Plants (Except MLRA g Living Roots (C3) C4) 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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
AYDROLOG Wetland Hyd Primary Indica Si W Si In Si Sield Observa	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Accarsely Vegetated Colations: resent? Yes	one requi	ery (B7) face (B8)	W 1, Se Ac Hy X O Pri Re Stu	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair	4B) (1) (ebrates (B13) (fide Odor (C1) (cospheres alon (Reduced Iron (C) (deduction in Pic- (ressed Plants (Except MLRA g Living Roots (C3) C4) 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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
AYDROLOG Wetland Hyd Primary Indica Si H Si W Sr In Sp ield Observa urface Water P Vater Table Prese	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Accarsely Vegetated Colations: irresent? Yes ent? Yes	one requi	ery (B7)	W 1, Sa Ac Hy X O Pri Re Sti	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair	4B) (a) (b) (c) (c) (c) (c) (c) (c) (c	g Living Roots (C3) C4) wed Soils (C6) D1) (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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
AYDROLOG Wetland Hyd Primary Indica Si H Si W Si In Sr Sield Observa urface Water P Vater Table Pre aturation Prese	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Acoarsely Vegetated Conations: Irresent? Yes sent? Yes ringe)	one requi	ery (B7) face (B8) NoX NoX NoX	W 1, Se Ac Hy X Ox Pri Re Sti Ot Depth (inc	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair ches):	4B) (1) (ebrates (B13) (fide Odor (C1) (ospheres alone Reduced Iron (Ceduction in Plotessed Plants (In in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
AYDROLOG Wetland Hyd Primary Indica Si H Si W Si In Sr Sield Observa urface Water P Vater Table Pre aturation Prese	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Accarsely Vegetated Colations: irresent? Yes ent? Yes	one requi	ery (B7) face (B8) NoX NoX NoX	W 1, Se Ac Hy X Ox Pri Re Sti Ot Depth (inc	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair ches):	4B) (1) (ebrates (B13) (fide Odor (C1) (ospheres alone Reduced Iron (Ceduction in Plotessed Plants (In in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
AYDROLOG Wetland Hyd Primary Indica Si H Si W Si In Sr Sield Observa urface Water P Vater Table Pre aturation Prese	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Acoarsely Vegetated Conations: Irresent? Yes sent? Yes ringe)	one requi	ery (B7) face (B8) NoX NoX NoX	W 1, Se Ac Hy X Ox Pri Re Sti Ot Depth (inc	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair ches):	4B) (1) (ebrates (B13) (fide Odor (C1) (ospheres alone Reduced Iron (Ceduction in Plotessed Plants (In in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
AYDROLOG Wetland Hyd Primary Indica Si H Si W Si In Sr Sield Observa urface Water P Vater Table Pre aturation Prese	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Acoarsely Vegetated Conations: Irresent? Yes sent? Yes ringe)	one requi	ery (B7) face (B8) NoX NoX NoX	W 1, Se Ac Hy X Ox Pri Re Sti Ot Depth (inc	2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz esence of R ecent Iron R unted or Str her (Explair ches):	4B) (1) (ebrates (B13) (fide Odor (C1) (ospheres alone Reduced Iron (Ceduction in Plotessed Plants (In in Remarks) >12 >12	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

	WETLAND	DETERMINA	TION DATA FO	RM - West	ern Mount	ains, Valle	eys, and Coa	PHS # st Region	6464
Project/Site:	Oak Ridge	Subdivision	City/County:	McI	//////////////////////////////////////	nill	Sampling Date:	10/2	4/2018
Applicant/Owner:		evelopment, LLC	The same of the sa			State:	OR	Sampling Point:	20
Investigator(s):		CM/JT	Section, To	ownship, Range		Section	17, Township 4	S, Range 4W	
Landform (hillslope,	terrace, etc.:)	Sic	рре	Local relief (co	oncave, convex,		None	Slope (%):	5
Subregion (LRR):		LRR A	Lat:	45.22	868	Long:	-123.21452	Datum:	
Soil Map Unit Name):	Wald	lo silty clay loam				sification:	None	11000
Are climatic/hydrolo	gic conditions or	the site typical for th		Yes	X			lain in Remarks)	
Are vegetation			significantly dis				es" present? (Y/N)		
Are vegetation		•	naturally proble					<u> </u>	
_		•					•		
SUMMARY OF	FINDINGS -	 Attach site m 	ap showing san	npling point	locations,	transects,	important feat	ures, etc.	
Hydrophytic Vegeta		Yes X	No						
Hydric Soil Present?	?	Yes	No X	is Sampled A a Wetla		Yes		No X	
Netland Hydrology	Present?	Yes	No X						•
Remarks:									
EGETATION	- Use scient	ific names of pl		1 1 1					
		% cove		Indicator Status	Dominance	Test works	sheet:		
<u>ree Stratum</u> (plo	t size: 3	0)			Number of Do	minant Specie	es		
1 Crataegus do	ouglasii	20	X	FAC		, FACW, or FA		4	(A)
2 Prunus sp.		20	X	(FAC)					(, ,)
3 Corylus corn	uta	10	X	FACU	Total Number	of Dominant			
4 Quercus garr	yana	10	X	FACU	Species Acros	ss All Strata:		6	(B)
		60	= Total Cover						. ,
apling/Shrub Stratu	ım (plot size:)			Percent of Do	minant Specie	s		
1					į.	FACW, or FA		67%	(A/B)
2									,,
3					Prevalence	Index Work	sheet:		
1					Total % Cover	rof	Multiply by	<u>- </u>	
<u> </u>					OBL Spe	ecies	x1=	0	
		0	= Total Cover		FACW sp	ecies	x 2 =	0	
erb Stratum (plot	: size: 5	· · · ·			FAC Spe		x3=	0	
l Phalaris arun	-	100	v	E4 0141	FACU Sp		x 4 =	0	
Rubus armen		30	X	FACW	UPL Spe		x 5 =	0	
Rubus armen	,		<u> </u>	FAC	Column 1	otals	0 (A)	0 (B)
1			M. C.		Provide	nce Index =B/A		211//01	
5					rievaler	ive index =6/A	#1	OIV/01	
					Hydronhytic	: Venetation	n Indicators:		
, , , , , , , , , , , , , , , , , , , ,					Julyarophiyar	_	Timulcators: Rapid Test for Hydro	nhytic Vocatation	
							Capid Test for Hydro Dominance Test is >		ı
		130	= Total Cover		*		revalence Index is ≤		
							forphological Adapta		pporting
oody Vine Stratum	(plot size:)			-		a in Remarks or on a		• •
			<u> </u>				Wetland Non-Vascul		
<u> </u>		and the same of th				Pro	blematic Hydrophyti	c Vegetation¹ (Ex	plain)
		0	≈ Total Cover		Indicators of h	udria sail and	wetland hydrology n	unt he erecent	

Hydrophytic Vegetation Present?

No_

Yes X

% Bare Ground in Herb Stratum

Remarks:

rofile Descrip					64			Sampling Point: 20		
	otion: (Describe to	the depth	needed to docume	nt the indi	cator or con	firm the abse	nce of indicators.)			
Depth	Matrix				Features					
(Inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type	Loc ²	Texture	Remarks		
0-12	10YR 3/2	100					Silt Loam			
	·									
								FACE		
and the second s										
								ence		
			educed Matrix, CS=C			Grains.		² Location: PL=Pore Lining, M=Matrix.		
ydric Soil Ir	ndicators: (Appl	cable to	all LRRs, unless	otherwis	se noted.)		Indica	ators for Problematic Hydric Soils ³ :		
Н	istosol (A1)		-	Sandy Redox (S5)				2 cm Muck (A10)		
H	istic Epipedon (A2)		_	Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2)				Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)		
В	ack Histic (A3)		_							
	ydrogen Sulfide (A4	•	_							
D-	epleted Below Dark	Surface (A	·11) _		epleted Matri	x (F3)				
Т	nick Dark Surface (A	112)	_	R	ledox Dark Sı	ırface (F6)				
S	andy Mucky Mineral	(S1)	_	Depleted Dark Surface (F7)				³ Indicators of hydrophytic vegetation and wetland		
S	andy Gleyed Matrix	(S4)	_	R	Redox Depressions (F8)			hydrology must be present, unless disturbed or problematic.		
strictive La	ayer (if present):									
ype:										
epth (inches):							Hydric Soil Pres	ent? Yes No X		
emarks:							,	NO X		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix,	, CS=Covered or Coated Sand Grains		² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, u		Indic	cators for Problematic Hydric Soils ³ :	
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1)(except MLRA 1)	Very Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F	·2)	Other (explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)			
Thick Dark Surface (A12)	Redox Dark Surface (F6	6)		
Sandy Mucky Mineral (S1)	Depleted Dark Surface	(F7)	³ Indicators of hydrophytic vegetation and wetland	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if present):				
Type:				
Depth (inches):	······································	Hydric Soil Pres	sent? Yes No X	
Remarks:		Trydric doi: 1 Tes	sent? Yes NoX	
HYDROLOGY Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; check a	all that apply)		Secondary Indicators (2 or more required)	
Surface Water (A1)	Water stained Leaves (E	9) (Except MLRA	Water stained Leaves (B9)	
High Water Table (A2)	1, 2, 4A, and 4B)		(MLRA1, 2, 4A, and 4B)	
Saturation (A3)	Salt Crust (B11)		Drainage Patterns (B10)	
Water Marks (B1)	Aquatic Invertebrates (B	13)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Hydrogen Sulfide Odor (•	Saturation Visible on Aerial Imagery (C	
Drift Deposits (B3)	Oxidized Rhizospheres a		Geomorphic Position (D2)	
Algal Mat or Crust (B4)	Presence of Reduced Iro		Shallow Aquitard (D3)	
Iron Deposits (B5)	Recent Iron Reduction in		Fac-Neutral Test (D5)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Stunted or Stressed Plan		Raised Ant Mounds (D6) (LRR A)	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remark	KS)	Frost-Heave Hummocks (D7)	
Field Observations:				
Surface Water Present? Yes No X	Depth (inches):	į		
		- Wetland Hydr	rology Propont?	
		Welland Hyul	Wetland Hydrology Present? Yes NoX	
Water Table Present? Yes No X Saturation Present? Yes No X	Depth (inches): >12 Depth (inches): >12	_	Yes NoX	
Water Table Present? Yes No X Saturation Present? Yes No X (includes capillary fringe)	Depth (inches): >12	ablo:	Yes NoX	
Water Table Present? Yes No X	Depth (inches): >12	able:	Yes NoX	
Water Table Present? Yes No X Saturation Present? Yes No X (includes capillary fringe)	Depth (inches): >12	able:	Yes NoX	
Water Table Present? Yes No X Saturation Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria	Depth (inches): >12	able:	Yes NoX	
Water Table Present? Yes No X Saturation Present? Yes No X (includes capillary fringe)	Depth (inches): >12	able:	Yes NoX	
Water Table Present? Yes No X Saturation Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria	Depth (inches): >12	able:	Yes NoX	

1	WETLAND	DETERMINATI	ON DATA FO	RM - West	ern Moun	tains, Valle	eys, and Coast	PHS# : Region	6464
Project/Site:		Subdivision	City/County:		linnville/Yan		Sampling Date:		/2019
Applicant/Owner:	Premier De	velopment, LLC				State:		Sampling Point:	
Investigator(s):		CR/JT	Section, To	ownship, Range:		_	n 17 Township 4S		
Landform (hillslope,	terrace, etc.:)	Swa	le	Local relief (co	oncave, conve		Concave	Slope (%):	2
Subregion (LRR):		LRR A	Lat:	45.22		Long:	-123.215963	Datum:	WGS84
Soil Map Unit Name):	Waldo	Silty Clay Loam			NWI Class	the same of the sa	– None	11000
Are climatic/hydrolog	gic conditions on	the site typical for this		Yes	X	No		n in Remarks)	
Are vegetation			significantly dis			-	s" present? (Y/N)		
Are vegetation	Soil	or Hydrology	naturally proble					Y	
	-								
SUMMARY OF	FINDINGS -	- Attach site ma	p showing sar	npling point	locations,	transects,	important featur	es, etc.	
Hydrophytic Vegetat		\ r	No X						
Hydric Soil Present?	•	Yes	NoX	Is Sampled A a Wetla		Yes	N	o X	
Wetland Hydrology F	Present?	Yes X	No			_			
Remarks:									
VEGETATION -	- Use scienti	fic names of pla	nts.						
		absolute	Dominant	Indicator	Dominand	e Test work	sheet:		
Tree Stratum (plot	t size:	<u>% cover</u>	Species?	Status	Number of F	Saminant Cuasi			
1		<u> </u>			l l	ominant Specie L, FACW, or FA		,	۸)
2					That are OB	L, FACVV, OF FA	C.	(A)
3					Total Numbe	er of Dominant			
4					1	oss All Strata:		(В)
		0	= Total Cover						۵,
Sapling/Shrub Stratu	<u>m</u> (plot size:)	_		Percent of D	ominant Specie			
1						ominant Specie L, FACW, or FA		IV/0! (A/B)
2					That are OB	L, FACTV, OI FA	40. #0	(.	PVD)
3			<u> </u>	*	Prevalenc	e Index Worl	(sheet:		
4					Total % Cov		Multiply by:		
5					OBL S		x 1 =	- 0	
		0	= Total Cover		FACW		x 2 =	0	
			_		FAC S	pecies	x 3 =	0	
	size:)			FACUS	Species	x 4 =	0	
1					UPL S	pecies	x 5 =	0	
2					Column	Totals	0 (A)	<u> </u>	3)
4	·								
5				-	Prevale	ence Index =B/A	\= #DI	V/0!	
6					Hydronbur	io \/o=+-+!	n Indiante		
7					nyaropnyt		n Indicators:	ndia Manata ti	
8					-		Rapid Test for Hydropl Dominance Test is >50		
		0	= Total Cover		_		Dominance Test is >50 Prevalence Index is ≤ 3		
					_		Norphological Adaptation		porting
Woody Vine Stratum	(plot size:)					a in Remarks or on a s		. •
1			•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		5- \	Wetland Non-Vascular	Plants ¹	
2						Pro	blematic Hydrophytic	Vegetation ¹ (Exp	lain)
		0	= Total Cover	_	1Indicators of	hydric soil and	wetland hydrology mu	st be present, ur	nless

Remarks: Inundated 12 inches. Vegetation could not be sampled.

100

% Bare Ground in Herb Stratum

Hydrophytic Vegetation Present?

disturbed or problematic.

Yes ____

No____

____X

_	

_			
F	PΥ	S	#

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va	III IU	min	T OI	1 II

21

Profile Descri	ption: (Describe to		needed to docume	ent the inc	dicator or con	firm the abso	ence of indicators.)	
Depth (Inches)	Matrix		0.1 (x Features		•	
0-12	Color (moist) 10YR 3/2	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
12-16	and the second second second second	100	7.5/0.00		-		Silty Clay Loam	
12-10	10YR 3/2	90	7.5YR 3/3	10	<u> </u>	M	Silty Clay Loam	Diffuse; fine

			educed Matrix, CS=			l Grains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (App	licable to	all LRRs, unless	otherw	ise noted.)		Indica	tors for Problematic Hydric Soils ³ :
-	Histosol (A1)			·	Sandy Redox	(S5)		2 cm Muck (A10)
	listic Epipedon (A2)	t			Stripped Matri	x (S6)		Red Parent Material (TF2)
	Black Histic (A3)				Loamy Mucky	Mineral (F1)	except MLRA 1)	Very Shallow Dark Surface (TF12)
h	lydrogen Sulfide (A	4)			Loamy Gleyed	Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	k Surface (A	N11)		Depleted Matr	ix (F3)		-
	hick Dark Surface (A12)			Redox Dark S	urface (F6)		
	Sandy Mucky Minera	al (S1)			Depleted Dark	Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	andy Gleyed Matrix	(S4)			Redox Depres	sions (F8)		problematic.
Restrictive L	ayer (if present)	:						
Type:								
Depth (inches)	:				-		Hydric Soil Prese	ent? Yes No X
Remarks:							.,,	100 NOX
HYDROLOG Wetland Hyd	GY rology Indicator	·e.			***			
		f one requ	ired; check all tha					Secondary Indicators (2 or more required)
	urface Water (A1)	. .	-		Water stained I, 2, 4A, and 4		Except MLRA	Water stained Leaves (B9)
	igh Water Table (A2	2)				-		(MLRA1, 2, 4A, and 4B)
	aturation (A3) /ater Marks (B1)		-		Salt Crust (B11	•		Drainage Patterns (B10)
	ediment Deposits (E	32)	•		Aquatic Inverte			Dry-Season Water Table (C2)
	rift Deposits (B3)) 	•		Hydrogen Sulfi		- 1 hd D4- (00)	Saturation Visible on Aerial Imagery (C9)
	gal Mat or Crust (B	4)	-		Presence of Re		g Living Roots (C3)	X Geomorphic Position (D2)
	on Deposits (B5)	,	-			,	wed Soils (C6)	Shallow Aquitard (D3) Fac-Neutral Test (D5)
S	urface Soil Cracks (B6)	-		Stunted or Stre		· ·	Raised Ant Mounds (D6) (LRR A)
- In	undation Visible on	Aerial Imag	ery (B7)		Other (Explain		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Frost-Heave Hummocks (D7)
Sı	parsely Vegetated C	oncave Su	rface (B8)		` .	·		Treat Fleate Hammooke (27)
Field Observa	ations:						- ,	
Surface Water P	resent? Yes	x	No	Depth (i	inches):	12		
Water Table Pre	sent? Yes		No	Depth (i	·		Wetland Hydro	alogy Present?
Saturation Prese (includes capillary f			No	Depth (i		-	nonana nyaro	Yes X No
Describe Record	ed Data (stream ga	uge, monito	oring well, aerial pho	tos, previo	ous inspections	s), if available		
emarks:				A				
								1

PHS#	6464
st Region	
	2/2019
Sampling Point	22
4S Range 4W	
	2
	WGS84
None	
plain in Remarks)	
<u> </u>	-
tures, etc.	
No	-
	1
4	(A)
E	(D)
5	(^(D)
	[
000/	(4(5)
80%	(A/R)
y:	
0	
0	
0	
	l
0	(17)
0	(B)

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coa

Project/Site:	Oak Ridge Su	ubdivision	City/County:	McM	// nnville/Yamhill	Sampling Date:	1/22/2019
Applicant/Owner:	The state of the s	elopment, LLC			State:		Sampling Point: 22
Investigator(s):		R/JT	Section, To	ownship, Range:	Sectio	on 17 Township 49	-
Landform (hillslope, te	· 	Slope	}	Local relief (cc	oncave, convex, none):	Concave	Slope (%): 2
Subregion (LRR):		LRR A	Lat:	45.229	9782 Long:	-123.21585	Datum: WGS84
Soil Map Unit Name:	*		Silty Clay Loam			ssification:	None
		he site typical for this ti			X No	(if no, expla	ain in Remarks)
		or Hydrology					Y
Are vegetation	Soil	or Hydrology	naturally probler	matic? If needer	d, explain any answers in Ren	marks.)	
SUMMARY OF F	FINDINGS -	Attach site mar	s ehowing sap	anlina noint	locations, transects,	tornament fagt.	
Hydrophytic Vegetatio			ln	l .		Ітропані івац	ires, etc.
Hydric Soil Present?		es X No		Is Sampled Ar	rea within	•	
Wetland Hydrology Pr			0	a Wetlar	nd? 163_	X	No
Remarks:			,	<u> </u>			
VEGETATION - I	Jse scientifi	c names of plan	its.				
		absolute % cover	Dominant Species?	Indicator	Dominance Test works	sheet:	
<u>Tree Stratum</u> (plot s	size:)	Species	Status	Number of Dominant Specie	ina	
1					That are OBL, FACW, or FA		4 (A)
2						10.	V V
3					Total Number of Dominant		
4					Species Across All Strata:	·	5 (B)
		0	= Total Cover				
Sapling/Shrub Stratum	1 (plot size:)			Percent of Dominant Specie	es	
1					That are OBL, FACW, or FA		80% (A/B)
2							
3					Prevalence Index Work	ksheet:	-
5					Total % Cover of	Multiply by:	
5		0	Tatal Cover		OBL Species	x1=	0
			= Total Cover		FACW species FAC Species	x2= x3=	0
Herb Stratum (plot s)			FACU Species	x 4 =	0
1 Schedonorus a		40	X	FAC	UPL Species	x5=	0
2 Alopecurus pra		20	X	FAC	Column Totals	0 (A)	(B)
3 Plantago lance			<u>X</u>	FACU			A-manual
4 Trifolium repen 5 Juncus tenuis	5		<u> </u>	FAC	Prevalence Index =B/A	A = #D	DIV/0!
5 Juncus tenuis			X	FAC	1 4 - M- maketie		
7					Hydrophytic Vegetation		
8						Rapid Test for Hydrop Dominance Test is >5	
		120	= Total Cover			Dominance Test is >5 Prevalence Index is ≤	
			• =				itions ¹ (provide supporting
	(plot size:)				ta in Remarks or on a	· ·
1					·	Wetland Non-Vascula	
2		-					c Vegetation ¹ (Explain)
		0	= Total Cover	!	¹ Indicators of hydric soil and disturbed or problematic.	wetland hydrology m	ust be present, unless
				!	Hydrophytic		
% Bare Ground in Herb	Stratum	0		,	Vegetation	Yes X	No
					Present?		_

PHS	#	6464

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Saili	Diffic	FUI	н

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	Matrix		needed to docum		nicator or con x Features	ilirm the abso	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	95	7.5YR 3/3	5	С	М	Silty Clay Loam	Common/Fine/ Faint
6-16	10YR 2/2	95	7.5YR 4/6	5	С	M	Silty Clay Loam	Common/Fine/Distinct
	-							
					· ——— ,		*** Chique and the control of the co	
							The second secon	
Tuno: C=C==								
	ncentration, D=Depletion I Indicators: (Appli					l Grains.		² Location: PL=Pore Lining, M=Matrix.
.y a. 10 0011	Histosol (A1)	cable to	all LKKS, unles			(OF)	Indica	tors for Problematic Hydric Soils ³ :
	Histic Epipedon (A2)				Sandy Redox			2 cm Muck (A10)
, - (State	Black Histic (A3)				Stripped Matri		except MLRA 1)	Red Parent Material (TF2)
	Hydrogen Sulfide (A4)			Loamy Gleyed		except MLRA 1)	Very Shallow Dark Surface (TF12)
	Depleted Below Dark		A11)		Depleted Matr	• •		Other (explain in Remarks)
	Thick Dark Surface (A		,		Redox Dark S			
	Sandy Mucky Mineral	(S1)			Depleted Dark		;	³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	(S4)			Redox Depres			hydrology must be present, unless disturbed or problematic.
estrictive	Layer (if present):							
уре:								
epth (inches	s):				-		Hydric Soil Prese	ent? Yes X No
					-		11,4110 00111 1000	int: Tes X NO
emarks:								
IYDROLO	drology Indicators							
IYDROLO /etland Hy- rimary Indic	drology Indicators cators (minimum of		uired; check all th					Secondary Indicators (2 or more required)
YDROLO (etland Hyrrimary India	drology Indicators cators (minimum of Surface Water (A1)	one requ	uired; check all th				Except MLRA	Water stained Leaves (B9)
YDROLO letland Hydrimary India X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2)	one requ	uired; check all th	1	I, 2, 4A, and 4	IB)	Except MLRA	
YDROLO fetland Hydrimary India X X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	one requ	iired; check all th	1	I, 2, 4A, and 4 Salt Crust (B11	IB) 1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
YDROLO /etland Hy rimary India X X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	one requ	uired; check all th	1 1 	I , 2, 4A, and 4 Salt Crust (B1 ² Aquatic Inverte	IB) 1) ebrates (B13)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLO /etland Hydrimary India X X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	one requ	uired; check all th	\ 1 	I, 2, 4A, and 4 Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi	BB) 1) ebrates (B13) ide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
YDROLO /etland Hy rimary India X X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	one requ	uired; check all th	\ 1 \$ } }	I, 2, 4A, and 4 Salt Crust (B1* Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	IB) I) ebrates (B13) ide Odor (C1) espheres alon	g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
YDROLO /etland Hy rimary India X X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	one requ	uired; check all th	1 5 4 1 C	I, 2, 4A, and 4 Salt Crust (B1* Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of Re	IB) brates (B13) de Odor (C1) bspheres along educed Iron (C	g Living Roots (C3) C4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3)
IYDROLO /etland Hy rimary India X X	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	one requ	iired; check all th	\ 1	I, 2, 4A, and 4 Salt Crust (B1* Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of Re	IB) brates (B13) de Odor (C1) spheres along educed Iron (C duction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
IYDROLO /etland Hy rimary India X X	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	one requ 2)		1 5 4 1 6 7 7 8	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of Re Recent Iron Re	B) brates (B13) de Odor (C1) espheres along educed Iron (C eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3)
IYDROLO /etland Hydrimary India X X	cators (minimum of 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 (B	one requipment on the control of the	ery (B7)	1 5 4 1 6 7 7 8	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	B) brates (B13) de Odor (C1) espheres along educed Iron (C eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLO Vetland Hy Virimary India X X	cators (minimum of 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 (BI) Inundation Visible on A	one requipment on the control of the	ery (B7)	1 5 4 1 6 7 7 8	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	B) brates (B13) de Odor (C1) espheres along educed Iron (C eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
IYDROLO Vetland Hydrimary India X X	drology Indicators cators (minimum of 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 (B Inundation Visible on A Sparsely Vegetated Co	one requipment on the control of the	ery (B7)	1 5 4 1 6 7 7 8	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	B) brates (B13) de Odor (C1) espheres along educed Iron (C eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
IYDROLO /etland Hy rimary India X X X eld Observ urface Water	drology Indicators cators (minimum of 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 (B Inundation Visible on A Sparsely Vegetated Co vations: Present? Yes resent? Yes	one requipment on the control of the	ery (B7) rface (B8)	1 1 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	I, 2, 4A, and 4 Salt Crust (B12 Aquatic Inverted Sulfice Control Researce of Research Iron Restanted or Street (Explain Inches):	B) brates (B13) de Odor (C1) espheres along educed Iron (C eduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLO Vetland Hy Verland Hy Verland II X X X ield Observ Urface Water Vater Table Pr Vaturation Pres	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A Sparsely Vegetated Covations: Present? Yes sent? Yes	one requ 2) 6) Aerial Imag pncave Sul	lery (B7) rface (B8)	F S C	I, 2, 4A, and 4 Salt Crust (B12 Aquatic Inverted Hydrogen Sulfin Dividized Rhizo Presence of Recent Iron Restanted or Street Dither (Explain Inches):	IB) iberates (B13) ide Odor (C1) ospheres alone educed Iron (C oduction in Plo essed Plants (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 (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
X X X ield Observater Table Presturation Prescludes capillary	drology Indicators cators (minimum of 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 (B Inundation Visible on A Sparsely Vegetated Co vations: Present? Yes resent? Yes sent? Yes	one required (2) (6) Aerial Imagencave Survey Surv	No X No No	Depth (i	I, 2, 4A, and 4 Salt Crust (B12 Aquatic Inverted Hydrogen Sulfin Dividized Rhizo Presence of Research Iron Restanted or Street Iron Resoluted Formulation (Explain Inches):	IB) I) cebrates (B13) ide Odor (C1) cepheres along educed Iron (C eduction in Plo essed Plants (I in Remarks) 0 0	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROLO Vetland Hydrimary India X X X ield Observariace Water Table Praduration Presidudes capillary	drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A Sparsely Vegetated Covations: Present? Yes sent? Yes	one required (2) (6) Aerial Imagencave Survey Surv	No X No No	Depth (i	I, 2, 4A, and 4 Salt Crust (B12 Aquatic Inverted Hydrogen Sulfin Dividized Rhizo Presence of Research Iron Restanted or Street Iron Resoluted Formulation (Explain Inches):	IB) I) cebrates (B13) ide Odor (C1) cepheres along educed Iron (C eduction in Plo essed Plants (I in Remarks) 0 0	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROLO /etland Hydrimary India X X X ield Observariace Water Table Presiduration Presidudes capillary	drology Indicators cators (minimum of 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 (B Inundation Visible on A Sparsely Vegetated Co vations: Present? Yes resent? Yes sent? Yes	one required (2) (6) Aerial Imagencave Survey Surv	No X No No	Depth (i	I, 2, 4A, and 4 Salt Crust (B12 Aquatic Inverted Hydrogen Sulfin Dividized Rhizo Presence of Research Iron Restanted or Street Iron Resoluted Formulation (Explain Inches):	IB) I) cebrates (B13) ide Odor (C1) cepheres along educed Iron (C eduction in Plo essed Plants (I in Remarks) 0 0	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROLO /etland Hydrimary India X X X eld Observariace Water Table Pratturation Prescludes capillary	drology Indicators cators (minimum of 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 (B Inundation Visible on A Sparsely Vegetated Co vations: Present? Yes resent? Yes sent? Yes	one required (2) (6) Aerial Imagencave Survey Surv	No X No No	Depth (i	I, 2, 4A, and 4 Salt Crust (B12 Aquatic Inverted Hydrogen Sulfin Dividized Rhizo Presence of Research Iron Restanted or Street Iron Resoluted Formulation (Explain Inches):	IB) I) cebrates (B13) ide Odor (C1) cepheres along educed Iron (C eduction in Plo essed Plants (I in Remarks) 0 0	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	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) Frost-Heave Hummocks (D7)

1	NETLAND	DETERM	INATIO	ON DATA FO	RM - West	ern Mounta	ains, Valle	eys, and C	oast Re	PHS# egion	6464
Project/Site:	Oak Ridge	Subdivisio	n	City/County:	McM	innville/Yam	hill	Sampling [Date:	1/22	/2019
Applicant/Owner:	Premier D	evelopment	, LLC				State:	OR		ling Point:	23
Investigator(s):	and the second of the second o	CR/JT		Section, To	ownship, Range:		Section	n 17 Townsh	•		
Landform (hillslope,	terrace, etc.:)		Swale	9	Local relief (co	oncave, convex,		Concav		Slope (%):	2
Subregion (LRR):		LRR A		Lat:	45.22	935	Long:	-123.2146		Datum:	WGS84
Soil Map Unit Name:			hehalis	 Silty Clay Loar	n			sification:		None	
Are climatic/hydrolog	jic conditions o				Yes	X			, explain in I		
Are vegetation				significantly dis	turbed?			s" present? (Y		Y	
Are vegetation	Soil										
		A441						,			
SUMMARY OF Hydrophytic Vegetati	on Present?				npling point	locations, t	ransects,	important f	eatures,	etc.	
-ydrophytic vegetati -lydric Soil Present?	on riesent?		<u>X</u> N		Is Sampled A	rea within					
•			X N		a Wetla		Yes	X	No		
Netland Hydrology F	resent?	Yes	K N	0							
Remarks:											
/EGETATION -	Use scien	tific names	of plan	ıfe							'
			bsolute	Dominant	Indicator	Dominance	Test works	shoot:			
_		_%	cover	Species?	Status		, rest work	311001.			
<u>ree Stratum</u> (plot	size:)				Number of Do	minant Specie	es			
1						That are OBL	, FACW, or FA	\C:	1	(A)
2											
3						Total Number	of Dominant				
4					M- //	Species Acros	ss All Strata:	-	1	(B)
			0	= Total Cover							
Sapling/Shrub Stratur	II (plot size:)				Percent of Do	minant Specie	s			
1						That are OBL,	FACW, or FA	AC:	100%	(A/B)
2											
						Prevalence	Index Work	sheet:			
1						Total % Cover	of	Multip	ly by:		
5						OBL Spe	ecies	x	1 =	0	
			0	= Total Cover		FACW sp			2=	0	
erb Stratum (plot	size:	5)				FAC Spe			3 =	0	
Carex obnupta			70	х	OBL	FACU Sp UPL Spe			4 =	0	
Deschampsia			5		FACW	Column T			5 =	0 0 (E	-N
Juncus tenuis			5		FAC	Column		0 (A)		<u>0</u> (E	?)
						Prevalen	ice Index =B/A	\ =	#DIV/0!		
									5.4101		
3						Hydrophytic	Vegetation	n Indicators;			
7							_	Rapid Test for I		Vegetation	
								Dominance Tes			
3			80	= Total Cover				revalence Inde			
3							4-N	Morphological A	daptations ¹	(provide su	pporting
3									•		
loody Vine Stratum	(plot size:)						a in Remarks o			. •
	(plot size:)					dat 5- \		r on a separ ascular Plan	ate sheet)	-

Hydrophytic Vegetation Present?

Yes___

No_

% Bare Ground in Herb Stratum

Remarks:

D	24	#	

Sampling Point:

	Matrix				x Features	min the app	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/1	100	Same and the same	Constitution			Silt Loam	
7-12	10YR 3/2	95	7.5YR 3/4	5	<u>C</u>	M	Silty Clay Loam	Fine
				·		·		
			At the second se	Name and Address of the Address of t				
	entration, D=Depletio							² Location: PL=Pore Lining, M=Matrix.
ydric Soil I	ndicators: (Appli	cable to	all LRRs, unles	otherw	ise noted.)			tors for Problematic Hydric Soils ³ :
	listosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)
	listic Epipedon (A2)				Stripped Ma	trix (S6)		Red Parent Material (TF2)
E	lack Histic (A3)				Loamy Muck	ky Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TF12)
	lydrogen Sulfide (A4))			Loamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
	epleted Below Dark	Surface (A	.11)		Depleted Ma	ıtrix (F3)		
T	hick Dark Surface (A	12)		X	Redox Dark	Surface (F6)		
s	andy Mucky Mineral	(S1)			Depleted Da	rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
s	andy Gleyed Matrix ((S4)	,		Redox Depre	essions (F8)		problematic.
estrictive L	ayer (if present):							
уре:								
epth (inches)					-		Hydric Soil Prese	ent? Yes X No
emarks:								
YDROLOG	SY rology Indicators	3						
	rology Indicators		ired' check all th	at apply)				Secondary Indicators (2 or may require 1)
YDROLO0 retland Hyd	rology Indicators ators (minimum of		ired; check all the		Vater staine	d Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required)
YDROLOO letland Hyd rimary Indica X s	rology Indicators	one requ	ired; check all the	V	Nater stained	d Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOG letland Hyd rimary Indica X s	rology Indicators ators (minimum of urface Water (A1)	one requ	ired; check all tha	\ 1		4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOG letland Hyd rimary Indica X s H	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2)	one requ	ired; check all the	\ 1 \$	I , 2, 4A, and Salt Crust (B	4B) 11)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
IYDROLOC /etland Hyd rimary Indica X s H S	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3)	one requ	ired; check all the	V 1 	I , 2, 4A, and Salt Crust (B [.] Aquatic Inver	4B)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOG letland Hyd rimary Indica X S H Si	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1)	one requ	ired; check all tha	\ 1 	I , 2, 4A, and Salt Crust (B [.] Aquatic Inver Hydrogen Su	4B) 11) tebrates (B13) lfide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOG /etland Hyd rimary Indica X S H S W S	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) ift Deposits (B3) gal Mat or Crust (B4)	one requ	ired; check all tha	\ 1 \$	I , 2, 4A, and Salt Crust (B [.] Aquatic Inver Hydrogen Su Oxidized Rhiz	4B) 11) tebrates (B13) lfide Odor (C1)	g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
YDROLOG retland Hyd rimary Indica X S H S W S	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) adiment Deposits (B2) ift Deposits (B3)	one requ	ired; check all the	\ 1 \$ # H	I, 2, 4A, and Salt Crust (B ¹ Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F	4B) 11) tebrates (B13) lifide Odor (C1) zospheres alon	g Living Roots (C3)	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)
YDROLOG letland Hyd rimary Indica X S H S W S D Al	ators (minimum of Jurface Water (A1) Igh Water Table (A2) Jurtation (A3) Judiment Deposits (B2) Jufface (B3) Jufface Soil Cracks (B3)	one requ	-	\ 1 \$ # C F	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F	4B) 11) tebrates (B13) lifide Odor (C1) zospheres alon	g Living Roots (C3) C4) wed Soils (C6)	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)
YDROLOG etland Hyd rimary Indica X S H Si V Si Di Al	ators (minimum of urface Water (A1) (gh Water Table (A2) (aturation (A3) (ater Marks (B1) (adiment Deposits (B2) (gal Mat or Crust (B4) (pr Deposits (B5) (p	one requ 2) 6) erial Image	- - - - ery (B7)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or St	4B) 11) tebrates (B13) lfide Odor (C1) zospheres alon Reduced Iron (G	g Living Roots (C3) C4) wed Soils (C6)	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) X Fac-Neutral Test (D5)
IYDROLOC /etland Hyd rimary Indica X S H Si W Si In Irc	ators (minimum of Jurface Water (A1) Igh Water Table (A2) Jurface Water Table (A2) Jurface Marks (B1) Jurface Marks (B3) Jurface Soil Cracks (B4) Jurface Soil Cracks (B4) Jurface Soil Cracks (B4) Jurface Soil Cracks (B4)	one requ 2) 6) erial Image	- - - - ery (B7)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or St	4B) 11) tebrates (B13) lfide Odor (C1) zospheres along Reduced Iron (C) Reduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
IYDROLOC /etland Hyd rimary Indica X S H Si W Si In Si	ators (minimum of Jurface Water (A1) Igh Water Table (A2) Jurface Water Table (A2) Jurface Marks (B1) Jurface Marks (B3) Jurface Soil Cracks (B4) Jurface Soil Cracks (B4) Jurface Soil Cracks (B4) Jurface Soil Cracks (B4)	one requ 2) 6) erial Image	- - - - ery (B7)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or St	4B) 11) tebrates (B13) lfide Odor (C1) zospheres along Reduced Iron (C) Reduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG Vetland Hyd rimary Indica X S H Si Vi Si In Si In	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) addiment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Aparsely Vegetated Coations:	one requ 2) 6) erial Image	- - - - ery (B7)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explain	4B) 11) tebrates (B13) lfide Odor (C1) zospheres along Reduced Iron (C) Reduction in Plo	g Living Roots (C3) C4) wed Soils (C6)	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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
IYDROLOG /etland Hyd rimary Indica X S H Si V Al Irc In Sp eld Observa	ators (minimum of urface Water (A1) Igh Water Table (A2) Idea (A3) Idea (A4)	one requ	ery (B7) face (B8)	11	I, 2, 4A, and Salt Crust (B' Aquatic Inver- Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explain	4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alone Reduced Iron (CR Reduction in Plote ressed Plants (In in Remarks)	g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CA) X Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Vetland Hyd rimary Indica X S H Si Vi Si In Si eld Observa rface Water P ater Table Preset	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B3) igh Mater Table (B4) iff Deposits (B5) urface Soil Cracks (Bundation Visible on A parsely Vegetated Coations: resent? Yes nt? Yes	one requ	ery (B7) face (B8)	In the second of	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dixidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explain	4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alone Reduced Iron (CReduction in Plote ressed 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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROLOC /etland Hyd rimary Indica X S H Si W Si In In Sp eld Observa urface Water P ater Table Pre sturation Prese cludes capillary f	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) addiment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Avarsely Vegetated Coations: resent? Yes	one requ	ery (B7) face (B8) No No NoX	Depth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dixidized Rhiz Presence of Freeence of Freeent Iron Freetnted or St Other (Explainments): Inches): Inches):	4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon, Reduced Iron (C Reduction in Ploressed Plants (n in Remarks) 8 >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Vetland Hyd rimary Indica X S H Si W Si In Si	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B3) igh Mater Table (B4) iff Deposits (B5) urface Soil Cracks (Bundation Visible on A parsely Vegetated Coations: resent? Yes nt? Yes	one requ	ery (B7) face (B8) No No NoX	Depth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dixidized Rhiz Presence of Freeence of Freeent Iron Freetnted or St Other (Explainments): Inches): Inches):	4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon, Reduced Iron (C Reduction in Ploressed Plants (n in Remarks) 8 >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Vetland Hyd rimary Indica X S H Si W Si In Si	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) addiment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Avarsely Vegetated Coations: resent? Yes	one requ	ery (B7) face (B8) No No NoX	Depth (i	I, 2, 4A, and Salt Crust (B' Aquatic Inver Hydrogen Su Dixidized Rhiz Presence of Freeence of Freeent Iron Freetnted or St Other (Explainments): Inches): Inches):	4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alon, Reduced Iron (C Reduction in Ploressed Plants (n in Remarks) 8 >12 >12	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

V	VETLAND	DETE	RMINAT	ION DATA FO	RM - Weste	ern Mountai	ns, Valle	ys, and Coast	PHS# Region	6464
Project/Site:	Oak Ridge			City/County:		innville/Yamhil		Sampling Date:		2/2019
pplicant/Owner:	Premier D	evelopm	ent, LLC						Sampling Point:	
nvestigator(s):		CR/JT		Section, To	wnship, Range:		-	17 Township 4S		
andform (hillslope, t	errace, etc.:)		Slo	oe	Local relief (co	ncave, convex, no		None		2
ubregion (LRR):		LRR /	4	Lat:	45.22	94	Long:	-123.214434	Datum:	
oil Map Unit Name:			Chehali	s Silty Clay Loan	n			fication:	- None	
re climatic/hydrologi	ic conditions o	n the site (typical for this	s time of year?	Yes	X	No	(if no, explai	n in Remarks)	
re vegetation	Soil	or Hy	ydrology _	significantly dist	urbed?	Are "Normal Cir		present? (Y/N)	Y	
re vegetation	Soil	or Hy	/drology	naturally probler	matic? If needed	t, explain any ansv	wers in Rema	ırks.)		
IIMMADV OF I	EINIDINICE	A 44m a								
				ıp showing san	npling point	locations, tra	insects, ir	nportant featur	es, etc.	
ydrophytic Vegetatio	on Present?	Yes _		No	Is Sampled Ar	rea within				
ydric Soil Present?		Yes _		No	a Wetlar		Yes	X N	o	
etland Hydrology P	resent?	Yes _	<u> </u>	No						
emarks:										
EGETATION -	Use scient	lific nar	nes of pla	ınts.					·	
			absolute		Indicator	Dominance T	est works	neet:		
6			% cover	Species?	Status					
ee Stratum (plot	size:)				Number of Domi				
						That are OBL, F/	ACW, or FAC): 	1 ((A)
	· · · · · · · · · · · · · · · · · · ·			-						
						Total Number of Species Across			4 /	.D.\
			0	= Total Cover		Obecies Voiose /	All Gliata.		1 ((B)
pling/Shrub Stratun	1 (nlot size:		1	_		Daniel of Danie				
	2 (plot size.		_'			Percent of Domir			10% (A (D)
						mat are Obl., FA	ACVV, OF FAC	J. <u>10</u>	(A/B)
			·			Prevalence in	dex Works	sheet:		
						Total % Cover of		Multiply by:		
						OBL Specie	es	x 1 =	0	
				= Total Cover		FACW spec		x 2 =	0	
rb Stratum (plot s	size:	5)				FAC Specie		x3=	0	
Alopecurus pr			100	х	FAC	FACU Specie		x4=	0	
		· · · · · · · · · · · · · · · · · · ·			. 70	Column Total		0 (A)	-	B)
						30,5,1111 1000		<u>-</u> (1)	(1	-/
						Prevalence	Index =B/A =	= _ #DI	V/0!	
	-					Hydrophytic V	/egetation	Indicators:		
							1- Ra	apid Test for Hydropl	hytic Vegetation	
			400	T		X		ominance Test is >50		
			100	= Total Cover				evalence Index is≤3 orphological Adaptati		pporting
ody Vine Stratum	(plot size:)					in Remarks or on a s		pporting
								etland Non-Vascular		
								lematic Hydrophytic		olain)
			0	= Total Cover			ric soil and w	etland hydrology mu		•
						disturbed or probl	lematic.			
Bare Ground in Herb	Stratum	()			Hydrophytic Vegetation		Yes X	No	
	•		The state of the s			Present?				

DL	96	#	

Sampling Point:

Depth	Matrix				x Features		ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks
0-6	10YR 3/2	95	7.5YR 4/6	5	C	PL	Silty Clay Loam	Fine
0-14	10YR 3/2	85	7.5YR 4/6	10	c	М		Company of the second of the s
0-14			7.5YR 4/6	5		PL	Silty Clay Loam	Common/Fine/Prominent
			7.511(4/0			PL.	Silty Clay Loam	Fine
	***************************************						·	
	1						on a control to be a control t	
			A. A				A company of the comp	Name of the state
	centration, D=Deplet					d Grains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to	all LRRs, unless	s otherw	ise noted.)		Indica	tors for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
**	Histic Epipedon (A2)				Stripped Matr	ix (S6)		Red Parent Material (TF2)
	Black Histic (A3)				Loamy Mucky	/ Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4	!)			Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A11)		Depleted Mat	rix (F3)		,
	Thick Dark Surface (A12)		x	Redox Dark S	Surface (F6)		
	Sandy Mucky Minera	l (S1)				k Surface (F7)	: !	³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	(S4)			Redox Depre:			hydrology must be present, unless disturbed or problematic.
	ayer (if present)						1	problematio.
	ayer (ii present)	•						
Туре:					_		ļ	
Month (in ale a a								
):						Hydric Soil Prese	ent? Yes X No
Remarks:		s:					Hydric Soil Prese	ent? Yes X No
Remarks: HYDROLOG Wetland Hyd	GY		uired; check all th	at apply)			Hydric Soil Prese	Secondary Indicators (2 or more required)
Remarks: HYDROLOG Wetland Hyder Primary Indice	GY Irology Indicator		uired; check all th	1			Hydric Soil Prese	
HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicator ators (minimum o Burface Water (A1) digh Water Table (A2	one requ	uired; check all th	1				Secondary Indicators (2 or more required)
HYDROLOGNETIMENT IN THE PROPERTY IN THE PROPER	GY Irology Indicator ators (minimum o surface Water (A1) digh Water Table (A2 saturation (A3)	one requ	uired; check all th	,		4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOG Wetland Hyd Primary Indic	GY Irology Indicator ators (minimum of surface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1)	f one requ	uired; check all th		1, 2, 4A, and a	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Wetland Hyd Primary Indic S H	GY Irology Indicator ators (minimum of curface Water (A1) digh Water Table (A2) cuturation (A3) Vater Marks (B1) dediment Deposits (B	f one requ	uired; check all th		1, 2, 4A, and a Salt Crust (B1 Aquatic Invert	4B) 1)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGN Wetland Hydrogen States Sta	GY Irology Indicator ators (minimum of Burface Water (A1) digh Water Table (A2) diaturation (A3) Vater Marks (B1) dediment Deposits (B3)	f one requ)	uired; check all th	X X X	1, 2, 4A, and 6 Salt Crust (B1 Aquatic Inverted Hydrogen Sult Dxidized Rhize	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor	Except MLRA g 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)
HYDROLOGN Wetland Hydrogen States Sta	GY Irology Indicator ators (minimum o surface Water (A1) ligh Water Table (A2 saturation (A3) Vater Marks (B1) sediment Deposits (B brift Deposits (B3) Igal Mat or Crust (B4	f one requ)	uired; check all th	X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverta Hydrogen Sult Oxidized Rhiza Presence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (Except MLRA g Living Roots (C3) C4)	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
HYDROLOGNETIMATE INTO THE PROPERTY INCIDENT AND THE PROPERTY INCIDENT	GY Irology Indicator ators (minimum or surface Water (A1) digh Water Table (A2 saturation (A3) Water Marks (B1) dediment Deposits (B3) Igal Mat or Crust (B4 on Deposits (B5)	f <u>оле гед</u> ц) 2)	uired; check all th	X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Hydrogen Sulf Dxidized Rhiz Presence of R Recent Iron R	4B) brates (B13) ide Odor (C1) ospheres alor educed Iron (eduction in Ple	Except MLRA g Living Roots (C3) C4) owed 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
HYDROLOG Wetland Hyc Primary Indic	GY Irology Indicator ators (minimum or curface Water (A1) digh Water Table (A2) cutter Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) curface Soil Cracks (I	f one requ) 2))		X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Hydrogen Sulf Dxidized Rhiz Presence of R Recent Iron R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (Except MLRA g Living Roots (C3) C4) owed 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) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOG Wetland Hyd Primary Indic	Arrology Indicator ators (minimum of Surface Water (A1) digh Water Table (A2) diaturation (A3) Vater Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (Inducation Visible on	f one requ) 2) 36) Aerial Imag	gery (B7)	X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Hydrogen Sulf Dxidized Rhiz Presence of R Recent Iron R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (c) eduction in Placessed Plants	Except MLRA g Living Roots (C3) C4) owed 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
HYDROLOGNETH NEW YORK	GY Irology Indicator ators (minimum or surface Water (A1) digh Water Table (A2 saturation (A3) Vater Marks (B1) dediment Deposits (B3) dgal Mat or Crust (B4 on Deposits (B5) surface Soil Cracks (In undation Visible on parsely Vegetated C	f one requ) 2) 36) Aerial Imag	gery (B7)	X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverti- Hydrogen Sulf Dxidized Rhizi Presence of R Recent Iron Ro Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (c) eduction in Placessed Plants	Except MLRA g Living Roots (C3) C4) owed 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGNETH NEW YORK	GY Irology Indicator ators (minimum or surface Water (A1) digh Water Table (A2 saturation (A3) Vater Marks (B1) dediment Deposits (B3) dgal Mat or Crust (B4 on Deposits (B5) surface Soil Cracks (In undation Visible on parsely Vegetated C	f one requ) 2) 36) Aerial Imag	gery (B7)	X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverti- Hydrogen Sulf Dxidized Rhizi Presence of R Recent Iron Ro Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (c) eduction in Placessed Plants	Except MLRA g Living Roots (C3) C4) owed 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Signal Si	Irology Indicator ators (minimum or Burface Water (A1) digh Water Table (A2) daturation (A3) Vater Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (Indundation Visible on parsely Vegetated Cations:	f one requ) 2) 36) Aerial Imag	gery (B7)	X	1, 2, 4A, and Salt Crust (B1 Aquatic Inverted Sulfice	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (c) eduction in Placessed Plants	Except MLRA g Living Roots (C3) C4) owed 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indic S In S Ir S Field Observ Surface Water F	GY Irology Indicator ators (minimum o surface Water (A1) digh Water Table (A2 daturation (A3) Vater Marks (B1) dediment Deposits (B3) dgal Mat or Crust (B4 on Deposits (B5) surface Soil Cracks (I mundation Visible on parsely Vegetated C ations: Present? Yes	f one requiped to the second of the second o	gery (B7) urface (B8)	X	1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Program Sult Dividized Rhiz Presence of Recent Iron Restunted or Structure (Explain Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (eduction in Ple essed Plants (in Remarks)	Except MLRA g Living Roots (C3) C4) owed 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indic S In S Ir S Field Observ Surface Water F Vater Table Pres Saturation Pres Includes capillary	Irology Indicator ators (minimum or Burface Water (A1) digh Water Table (A2 daturation (A3) Vater Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4 on Deposits (B5) durface Soil Cracks (In undation Visible on parsely Vegetated C ations: Present? Yes desent? Yes desent? Yes defininge)	f one required () 2) 36) Aerial Imagonicave Su X X	gery (B7) Inface (B8) No No	X X Depth (Depth (Depth (1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Presence of Recent Iron Recent	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (ceduction in Pleased Plants in Remarks) 8 0 0	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic	GY Irology Indicator ators (minimum or surface Water (A1) digh Water Table (A2 daturation (A3) Water Marks (B1) Rediment Deposits (B3) Algal Mat or Crust (B4 on Deposits (B5) rurface Soil Cracks (In undation Visible on parsely Vegetated Co ations: Present? Yes esent? Yes ent? Yes	f one required () 2) 36) Aerial Imagonicave Su X X	gery (B7) Inface (B8) No No	X X Depth (Depth (Depth (1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Presence of Recent Iron Recent	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (ceduction in Pleased Plants in Remarks) 8 0 0	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indic S In S Ir S Field Observ Surface Water F Vater Table Pres Saturation Pres Includes capillary	Irology Indicator ators (minimum or Burface Water (A1) digh Water Table (A2 daturation (A3) Vater Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4 on Deposits (B5) durface Soil Cracks (In undation Visible on parsely Vegetated C ations: Present? Yes desent? Yes desent? Yes defininge)	f one required () 2) 36) Aerial Imagonicave Su X X	gery (B7) Inface (B8) No No	X X Depth (Depth (Depth (1, 2, 4A, and a Salt Crust (B1 Aquatic Inverted Presence of Recent Iron Recent	4B) 1) ebrates (B13) fide Odor (C1) ospheres alor educed Iron (ceduction in Pleased Plants in Remarks) 8 0 0	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

PHS # egion	6464
4/1	7/2018

W	ETLAND DETE	ERMINATIO	N DATA FO	RM - West	ern Mountains, Va	alleys, and Coa	st Region	0404
	Oak Ridge Subdiv		City/County:		innville/Yamhill	Sampling Date:		/2018
Applicant/Owner:	Premier Developn	nent, LLC			State		Sampling Point:	
Investigator(s):	CR/JT		Section, To	wnship, Range:		ion 17, Township 4		20
Landform (hillslope, ter	race, etc.:)	Slope			oncave, convex, none):	None	- Company of the Comp	10
Subregion (LRR):	LRR	Α	Lat:	45,228	•	-123.211944	Slope (%): Datum:	
Soil Map Unit Name:	, , , , , , , , , , , , , , , , , , ,	Waldo S	— ilty Clay Loam			classification:	None	WG304
Are climatic/hydrologic	conditions on the site			Yes		o(if no, exp		
Are vegetation			significantly dist		Are "Normal Circumstal			
Are vegetation					ed, explain any answers in F		1	
SUMMARY OF FI	NDINGS - Atta			npling point	t locations, transect	s, important feat	ures, etc.	
Hydrophytic Vegetation	-	X No		is Sampled A	rea within			
Hydric Soil Present?	Yes -	X No		a Wetla	ind? Yes	sX	No	
Wetland Hydrology Pre	sent? Yes	X No	,					
Remarks:								
VEGETATION - U	se scientific na	mes of plan	fe	<u> </u>				
		absolute	Dominant	Indicator	Dominance Test wo	rkshoot		
_		% cover	Species?	Status	Dominance rest wo	TROTICCI.		
Tree Stratum (plot siz	ze:))			Number of Dominant Spo	ecies		
2					That are OBL, FACW, or	FAC:	(/	۹)
2								
4					Total Number of Domina			
		0	= Total Cover		Species Across All Strate	a:	(E	3)
Sapling/Shrub Stratum	(mint sing.		- Total Cove					
1	(plot size:	_'			Percent of Dominant Spe			
2					That are OBL, FACW, or	r FAC:	100% (A	∜B)
3					Prevalence Index W	orkshoot:		
4					Total % Cover of	Multiply by:		
5				···	OBL Species	x1=	<u>. </u>	
		0	= Total Cover		FACW species	x 2 =	0	
					FAC Species	x 3 =	0	
Herb Stratum (plot siz					FACU Species	x 4 =	0	
1 Alopecurus prat 2 Juncus effusus	erisis	90	<u>X</u>	FAC	UPL Species	x 5 =	0	
3 Rubus armeniac	eus.	5		FACW FAC	Column Totals	(A)	0 (B)
4				170	Prevalence Index =	-R/Δ = #1	DIV/0I	
5					1 TOVARCINO INDEX =	- #t	714/0:	
6					Hydrophytic Vegetat	tion Indicators:		
7						1- Rapid Test for Hydro	phytic Vegetation	
8						2- Dominance Test is >		
		105	= Total Cover			3-Prevalence Index is ≤		
Voody Vine Stratum (plot size:	1				4-Morphological Adapta		porting
1		- ′			4	data in Remarks or on a 5- Wetland Non-Vascul	. ,	
2						Problematic Hydrophyti		(ain)
		0	= Total Cover		¹ Indicators of hydric soil a			
					disturbed or problematic.		ract be present, and	
		^			Hydrophytic	V V		
6 Bare Ground in Herb 9	Stratum							
6 Bare Ground in Herb S	Stratum	0			Vegetation Present?	Yes X	No	

^	_	

PHS#

6464

Sampling Point:

Depth	ption: (Describe to t Matrix	ne deptii	necata to accume		x Features	inim the aps	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/1	90	5YR 3/3	5	С	PL	Silty Clay Loam	Large
0-9			5YR 3/3	5	С	М	Silty Clay Loam	Large
9-16	10YR 3/1	96	5YR 3/3	2	С	М	Silty Clay Loam	Medium
9-16			2.5Y 5/2	2	D	М	Silty Clay Loam	Medium
¹ Type: C=Cond	entration, D=Depletio	n, RM=Re	educed Matrix, CS=0	Covered o	r Coated Sand	d Grains		² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli							tors for Problematic Hydric Soils ³ :
	distosol (A1)				Sandy Redox		muica	·
and the second second	Histic Epipedon (A2)		•		Stripped Matr	• •		2 cm Muck (A10)
	Black Histic (A3)		•				(except MLRA 1)	Red Parent Material (TF2)
	Hydrogen Sulfide (A4)		•		Loamy Gleyer		(except MERA 1)	Very Shallow Dark Surface (TF12)
	Depleted Below Dark		.11\			• •		Other (explain in Remarks)
	hick Dark Surface (A		-		Depleted Mati	, ,		
	Sandy Mucky Mineral	•	-		Redox Dark S	` '		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix (-		Redox Depres	k Surface (F7)	•	hydrology must be present, unless disturbed or
		O-1)			Redox Depres	ssions (F8)		problematic.
	.ayer (if present):							
Type:				-	-			
Depth (inches)):						Hydric Soil Prese	ent? Yes X No
Remarks:					_		jiryano com resc	
Remarks:	GY Irology Indicators	:					I yan o oo I oo o	
Remarks: HYDROLOG Wetland Hyd			ired; check all tha	at apply)				
Remarks: HYDROLOG Wetland Hyd Primary Indica	rology Indicators		iired; check all tha		Water stained	Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
Remarks: HYDROLOG Wetland Hyd Primary Indica	rology Indicators	one requ	iired; check all tha	\	Vater stained 1, 2, 4A, and 4			Secondary Indicators (2 or more required)
HYDROLOG Wetland Hyd Primary Indica	rology Indicators ators (minimum of urface Water (A1)	one requ	iired; check all tha	1		4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOG Wetland Hyd Primary Indica S X H X S	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1)	one requ	iired; check all tha	1	I, 2, 4A, and 4	4B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Wetland Hyd Primary Indica S X H X S	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2	one requ	iired; check all tha	\\\ 1 	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte	4B) 1)	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)
HYDROLOG Wetland Hyd Primary Indica X H X S D	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	one requ	iired; check all tha	1 1 2 4	I, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf	4B) 1) ebrates (B13) fide 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)
HYDROLOG Wetland Hyd Primary Indica S X H X S O A	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4)	one requ	iired; check all tha	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhizo Presence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (6	Except MLRA g Living Roots (C3) C4)	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 (C5)
HYDROLOG Wetland Hyd Primary Indica S X H X S O A	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5)	one requ	iired; check all tha	X C	1, 2, 4A, and 4 Salt Crust (B1) Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of Ri Recent Iron Re	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (Geduction in Pla	Except MLRA g Living Roots (C3) C4) owed 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 (CS) Geomorphic Position (D2)
HYDROLOG Wetland Hyd Primary Indica X H X S O A Interpretable	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6)	one requ	- - - -	X (C) F	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) owed 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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOG Wetland Hyd Primary Indica X H X S D A Irr	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) aundation Visible on A	one requ	- - - - - ery (B7)	X (C) F	1, 2, 4A, and 4 Salt Crust (B1) Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of Ri Recent Iron Re	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) owed 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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
HYDROLOG Wetland Hyd Primary Indica S X H X S O Iri	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Co	one requ	- - - - - ery (B7)	X (C) F	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) owed 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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indica X H X S D A Irr S In S Field Observa	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) aundation Visible on Aparsely Vegetated Coations:	one requ	- - - - - ery (B7)	X (C) F	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dxidized Rhize Presence of Re Recent Iron Re Stunted or Stre	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) owed 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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indica S X H X S O A Irr Si Field Observ. Surface Water F	ators (minimum of purface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) purface Soil Cracks (B6) purface Vegetated Coations:	one requ	ery (B7) rface (B8)	X (C) F	1, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of Ri Recent Iron Re Stunted or Stre Other (Explain	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) owed 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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hyd Primary Indica S X H X S O Ir S In S Field Observators Surface Water F Water Table Pre	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) urface Soil Cracks (B6) undation Visible on Aparsely Vegetated Coations:	one requ	ery (B7)	X C F F S S C C	1, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of Ri Recent Iron Re Stunted or Stre Other (Explain	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) owed 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 (CS Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indica S X H X S O A Interpretation Sirface Water F Water Table Prese Saturation Prese	ators (minimum of purface Water (A1) ligh Water Table (A2) aturation (A3) Water Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) urface Soil Cracks (B6) urface Vegetated Coations: Present? Yes ent? Yes	one requ 2) 6) erial Imag	ery (B7) rface (B8)	X C F F S S C C	1, 2, 4A, and 4 Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Dixidized Rhizo Presence of Ri Recent Iron Re Stunted or Stre Other (Explain	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon reduced Iron (reduced Iron (reduced Iron) essed Plants (reduced Iron) in Remarks)	Except MLRA g Living Roots (C3) C4) owed Soils (C6) (D1) (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 (CS Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indica X H X S W S In S Field Observe Surface Water F Water Table Pres Saturation Press includes capillary to	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on A parsely Vegetated Co ations: Present? Yes esent? Yes ent? Yes langer	one required (2) 6) erial Imagencave Sur	ery (B7) rface (B8) No No	X C F F F C Depth (i Depth (i	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of R Recent Iron Re Stunted or Stre Dither (Explain inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Finite In Remarks) 1 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indica X H X S W S In S Field Observe Surface Water F Water Table Pres Saturation Press includes capillary to	ators (minimum of purface Water (A1) ligh Water Table (A2) aturation (A3) Water Marks (B1) ediment Deposits (B2) rift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) urface Soil Cracks (B6) urface Vegetated Coations: Present? Yes ent? Yes	one required (2) 6) erial Imagencave Sur	ery (B7) rface (B8) No No	X C F F F C Depth (i Depth (i	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of R Recent Iron Re Stunted or Stre Dither (Explain inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Finish Remarks) 1 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indica X H X S W S In S Field Observe Surface Water F Water Table Pres Saturation Press includes capillary to	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on A parsely Vegetated Co ations: Present? Yes esent? Yes ent? Yes langer	one required (2) 6) erial Imagencave Sur	ery (B7) rface (B8) No No	X C F F F C Depth (i Depth (i	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of R Recent Iron Re Stunted or Stre Dither (Explain inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Finish Remarks) 1 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hyd Primary Indica X H X S W S In S Field Observe Surface Water F Water Table Pres Saturation Press includes capillary to	ators (minimum of urface Water (A1) ligh Water Table (A2) aturation (A3) Vater Marks (B1) ediment Deposits (B2) rift Deposits (B3) lgal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on A parsely Vegetated Co ations: Present? Yes esent? Yes ent? Yes langer	one required (2) 6) erial Imagencave Sur	ery (B7) rface (B8) No No	X C F F F C Depth (i Depth (i	1, 2, 4A, and 4 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Dixidized Rhize Presence of R Recent Iron Re Stunted or Stre Dither (Explain inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon educed Iron (Geduction in Placessed Plants (Finish Remarks) 1 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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 (C3 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Applicant/Owner: Premier Development, LLC Investigator(s): CR/JT Section, Township, Range: Section 17, Town Landform (hillslope, terrace, etc.:) Slope Local relief (concave, convex, none): None Subregion (LRR): LRR A Lat: 45.228916 Long: -123.21 Soil Map Unit Name: Waldo Silty Clay Loam NWI Classification: Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (if Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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 Hydrophytic Vegetation Present? Yes X No	Sampling Point: 26 26 26 26 26 26 26 26
Investigator(s): CR/JT Section, Township, Range: Section 17, Town Landform (hillslope, terrace, etc.:) Slope Local relief (concave, convex, none): None Subregion (LRR): LRR A Lat: 45.228916 Long: -123.24 Soil Map Unit Name: Waldo Silty Clay Loam NWI Classification: Are climatic/hydrologic conditions on the site typical for this time of year? Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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 Hydrophytic Vegetation Present? Yes X No	nship 4S, Range 4W ne Slope (%): 10 11944 Datum: WGS84 None f no, explain in Remarks) (Y/N) Y
Landform (hillslope, terrace, etc.:) Slope Local relief (concave, convex, none): Note Subregion (LRR): LRR A Lat: 45.228916 Long: -123.27 Soil Map Unit Name: Waldo Silty Clay Loam NWI Classification: Are climatic/hydrologic conditions on the site typical for this time of year? Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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, importantly Hydrophytic Vegetation Present? Yes X No	ne Slope (%): 10 11944 Datum: WGS84 None f no, explain in Remarks) Y (Y/N) Y
Landform (hillslope, terrace, etc.:) Slope Local relief (concave, convex, none): None Subregion (LRR): LRR A Lat: 45.228916 Long: -123.27 Soil Map Unit Name: Waldo Silty Clay Loam NWI Classification: Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (if Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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 Hydrophytic Vegetation Present? Yes X No	ne Slope (%): 10 11944 Datum: WGS84 None f no, explain in Remarks) Y (Y/N) Y
Soil Map Unit Name: Waldo Silty Clay Loam NWI Classification: Are climatic/hydrologic conditions on the site typical for this time of year? Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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, importantly Hydrophytic Vegetation Present? Yes X No	11944 Datum: WGS84 None f no, explain in Remarks) Y (Y/N) Y
Are climatic/hydrologic conditions on the site typical for this time of year? Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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, importantly disturbed? No	f no, explain in Remarks) Y (Y/N) Y
Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? 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, importantly disturbed? No	Y (Y/N) Y
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, importar Hydrophytic Vegetation Present? Yes X No	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, importar Hydrophytic Vegetation Present? Yes X No	
Hydrophytic Vegetation Present? Yes X No	
Hydrophytic Vegetation Present? Yes X No	at faatiivaa ata
II. A	it leatures, etc.
Hydric Soil Present? Yes No X Is Sampled Area within A Wetland? Yes	No X
Wetland Hydrology Present? Yes No X	No <u>X</u>
Remarks:	
VEGETATION - Use scientific names of plants.	
absolute Dominant Indicator Dominance Test worksheet: % cover Species? Status	
Tree Stratum (plot size: 30) Number of Dominant Species	
1 Prunus sp. 5 X (FAC) That are OBL, FACW, or FAC:	2 (A)
2	1
Total Number of Dominant	
Species Across All Strata:	2 (B)
5 = Total Cover	
Sapling/Shrub Stratum (plot size:) Percent of Dominant Species	
That are OBL, FACW, or FAC:	100% (A/B)
4 Prevalence index worksheet:	
Total % Cover of Mu OBL Species	<u>ultiply by:</u> x 1 = 0
0 = Total Cover FACW species	$x_1 = 0$ $x_2 = 0$
FAC Species	x3= 0
Herb Stratum (plot size: 5) 1 Alopecurus pratensis 100 X FAC UPI Species	x 4 = 0
2	x 5 = 0
2 Column Totals 0 (A)	0 (B)
4 Prevalence Index =B/A =	#DIV/0!
5	#UIV/UI
6 Hydrophytic Vegetation Indicator	rs:
7 1- Rapid Test fo	for Hydrophytic Vegetation
X 2- Dominance T	Test is >50%
100 = Total Cover 3-Prevalence in	
Moody Vine Stratum (nlot size:	al Adaptations ¹ (provide supporting
data in Remark	ks or on a separate sheet) n-Vascular Plants ¹
2	rdrophytic Vegetation ¹ (Explain)
0 = Total Cover Indicators of hydric soil and wetland hydric	
disturbed or problematic.	,
6 Bare Ground in Herb Stratum 0 Vegetation Yes	X No
Remarks:	X No

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Sampling Point:

Depth	Matrix	•				minim the abs	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	Kedi %	ox Features Type ¹	Loc ²	- Texture	D I
0-8	10YR 3/2	100		,,,		100	Silty Clay Loam	Remarks
8-20	10YR 3/2	98	7.5YR 4/6	2	С	М	Silty Clay Loam	Fine
							Only Olay Loan	r nie
								
					-			
					<u> </u>			
					O Marine Committee of the Committee of t	Andrew programme and the second		
¹ Type: C=Conce	ntration, D=Depletio	on. RM≃Re	duced Matrix C	S=Covered o	or Coated Sar	ad Grains	-	2(
Hydric Soil In	dicators: (Appli	cable to	all LRRs. uni	ess otherw	ise noted	id Grains.		² Location: PL=Pore Lining, M=Matrix.
	stosol (A1)				Sandy Redo		mulca	tors for Problematic Hydric Soils ³ :
	stic Epipedon (A2)				Stripped Mai			2 cm Muck (A10)
Bl	ack Histic (A3)				•		(except MLRA 1)	Red Parent Material (TF2)
	drogen Sulfide (A4))		*		ed Matrix (F2)	except MERA 1)	Very Shallow Dark Surface (TF12)
	pleted Below Dark		11)		Depleted Ma	` '		Other (explain in Remarks)
	ick Dark Surface (A		,		Redox Dark			
	ndy Mucky Mineral				•	suriace (F6) rk Surface (F7)	\$	³ Indicators of hydrophytic vegetation and wetland
	ndy Gleyed Matrix (` '			Redox Depre			hydrology must be present, unless disturbed or
	yer (if present):	· ,			redox Depie	555(UTIS (FO)		problematic.
	yei (ii preseiit).							
Гуре:					_			
Jonth (inch).								
emarks:	·						Hydric Soil Prese	nt? Yes NoX
Depth (inches): Remarks: HYDROLOG Vetland Hydro	Y Dlogy Indicators	:					Hydric Soil Prese	nt? Yes No X
Remarks: HYDROLOG Vetland Hydro			red; check all	that apply)				
Nemarks: HYDROLOG Vetland Hydro Primary Indicat	ology Indicators ors (minimum of face Water (A1)	one requi	red; check all			d Leaves (B9) (Secondary Indicators (2 or more required) Water stained Leaves (B9)
Remarks: HYDROLOG Vetland Hydro rimary Indicat Sur Hig	ology Indicators ors (minimum of face Water (A1) h Water Table (A2)	one requi	red; check all		Water stained			Secondary Indicators (2 or more required)
Remarks: HYDROLOG Vetland Hydro Vrimary Indicat Sur Hig	ors (minimum of face Water (A1) h Water Table (A2) uration (A3)	one requi	red; check all		1, 2, 4A, and Salt Crust (B1	4B) I1)		Secondary Indicators (2 or more required) Water stained Leaves (B9)
Nemarks: HYDROLOG Vetland Hydro Sur Hig Sat Wa	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1)	one requi	red; check all		1, 2, 4A, and Salt Crust (B1	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Nemarks: HYDROLOG Vetland Hydro Sur Hig Sat Wa Sec	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1)	one requi	red; check all		1, 2, 4A, and Salt Crust (B1 Aquatic Inverl Hydrogen Sul	4B) 11) tebrates (B13) tfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
AYDROLOG Vetland Hydro Primary Indicat Hig Sat Wa Sec	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3)	one requi	red; check all		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz	4B) (11) tebrates (B13) tfide Odor (C1) cospheres along	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)
Remarks: HYDROLOG Vetland Hydro Primary Indicat Sur Hig Sat Wa Sec Drift	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4)	one requi	red; check all		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F	4B) (11) (debrates (B13)) (fide Odor (C1)) (cospheres along (Reduced Iron (C	Except MLRA g Living Roots (C3) C4)	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 Control of Contro
Remarks: HYDROLOG Vetland Hydro Sur Hig Sat Wa Sec Drift Alg	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5)	one requi	red; check all		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R	4B) (11) (15) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16)	Except MLRA g Living Roots (C3) C4) 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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Nemarks: HYDROLOG Vetland Hydro Primary Indicat Hig Sat Wa Sec Drit Alg Iror Sur	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6)	one requi			1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str	4B) It is the brates (B13) If ide Odor (C1) cospheres along Reduced Iron (C) deduction in Plotessed Plants (I	Except MLRA g Living Roots (C3) C4) 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) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Remarks: HYDROLOG Vetland Hydro Frimary Indicat Hig Sat Wa Sec Drit Alg Iror Sur	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5)	one requi	ery (B7)		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str	4B) (11) (15) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16) (16)	Except MLRA g Living Roots (C3) C4) 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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Remarks: HYDROLOG Vetland Hydro Primary Indicat Sur Hig Sat Wa Sec Drift Alg Iror Sur Inui	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (Bindation Visible on Aursely Vegetated Co	one requi	ery (B7)		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str	4B) It is the brates (B13) If ide Odor (C1) cospheres along Reduced Iron (C) deduction in Plotessed Plants (I	Except MLRA g Living Roots (C3) C4) 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) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
AYDROLOG Vetland Hydro Primary Indicat Hig Sat Wa Sec Drit Alg Iror Sur	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (Bindation Visible on Aursely Vegetated Co	one requi	ery (B7) ace (B8)		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain	4B) It is the brates (B13) If ide Odor (C1) cospheres along Reduced Iron (C) deduction in Plotessed Plants (I	Except MLRA g Living Roots (C3) C4) 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) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Nemarks: HYDROLOG Vetland Hydro Primary Indicat Hig Sat Wa Sec Drit Alg Iror Sur Inui Spa	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B1 dation Visible on A ursely Vegetated Co ions:	one requi	ery (B7) ace (B8)	Depth (1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Dther (Explair	4B) (11) (15) (16) (g Living Roots (C3) C4) wed Soils (C6) D1) (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) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: HYDROLOG Vetland Hydro Vrimary Indicat Sur Hig Sat Wa Sec Drift Alg Iror Sur Inui Spa deld Observat urface Water Presentaturation Present	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (Bindation Visible on Airsely Vegetated Coilons: Sent? Yes ent? Yes Ent? Yes	one requi	ery (B7) ace (B8)		1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair	4B) It is the brates (B13) If ide Odor (C1) cospheres along Reduced Iron (C) deduction in Plotessed Plants (I	Except MLRA g Living Roots (C3) C4) 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) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicate Surface Water Table Presentudes capillary frincludes ca	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (Bindation Visible on Airsely Vegetated Coilons: Sent? Yes ent? Yes Ent? Yes	one requi	Pry (B7) Face (B8) No X No X No X	Depth (i	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair inches):	4B) Italian Italian	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indicate Surface Water Table Presentudes capillary frincludes ca	ors (minimum of face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (Bridation Visible on Airsely Vegetated Colons: esent? Yes ent? Yes ent? Yes ent? Yes	one requi	Pry (B7) Face (B8) No X No X No X	Depth (i	1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair inches):	4B) Italian Italian	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAN	D DETE	ERMINATIO	ON DATA FO	RM - Weste	ern Mountain:	s, Valleys,	and Coast	PHS # Region	6464
Project/Site: Oak Ridg	ge Subdiv	/ision	City/County:	McM	innville/Yamhill	Sa	mpling Date:	4/17	7/2018
Applicant/Owner: Premier	Developr	nent, LLC				State: OR		ampling Point:	
Investigator(s):	CR/JT		Section, To	ownship, Range:		Section 17, T	-		
Landform (hillslope, terrace, etc.:)	Berm			oncave, convex, none		Concave	Slope (%):	5
Subregion (LRR):	LRR	Α	Lat:	45.228	•	, <u> </u>	23.211944		WGS84
Soil Map Unit Name:		Waldo S	ilty Clay Loam			NWI Classification		- None	110304
Are climatic/hydrologic conditions	on the site			Yes		No	***************************************		·
Are vegetation Soil								n in Remarks)	
			- Control of the Cont		d, explain any answe			<u> </u>	
SUMMARY OF FINDING	S – Atta	ch site map	showing san	npling point	locations, tran	sects, impo	rtant featur	es, etc.	
Hydrophytic Vegetation Present?		X N		· ·					
Hydric Soil Present?	Yes	<u> </u>	o	Is Sampled A	rea within nd?	Yes X	No)	
Wetland Hydrology Present?	Yes	X N	0						
Remarks:				1					
VEGETATION - Use scie	ntific na								
		absolute % cover	Dominant Species?	Indicator Status	Dominance Te	st worksheet	;		
Tree Stratum (plot size:)	- орескоз:	Otatus	Number of Domina	ant Species			
1					That are OBL, FA	•		2	(A)
2						,			([,] ',
3					Total Number of D	ominant			
4					Species Across Al	Strata:		2	(B)
		0	= Total Cover						
Sapling/Shrub Stratum (plot size	:e:)			Percent of Domina	nt Species			
1					That are OBL, FAC	•	10	0%	(A/B)
2							***		/
3					Prevalence Ind	ex Workshee	t:		
4					Total % Cover of		Multiply by:	_	
5					OBL Species		x1=	0	
		0	= Total Cover		FACW specie		_ x 2 =	0	
Herb Stratum (plot size:	5	1			FAC Species		- x3=		
1 Alopecurus pratensis		65	х	FAC	FACU Species UPL Species		x4=	0	
2 Juncus effusus		20	<u> </u>	FACW	Column Total		_ x5= (A)		В)
3 Agrostis capillaris		10		FAC	oolami rotali			(D)
4 Vicia tetrasperma		5		(UPL)	Prevalence la	ndex =B/A =	#DI	V/0!	
5									
6					Hydrophytic Ve	getation Indi	cators:		
7							Test for Hydroph	ytic Vegetation	
8				-	X	2- Domina	ance Test is >50	%	
		100	= Total Cover				nce Index is ≤ 3.		
Moody Vino Stratum (plot pizo:		`					logical Adaptation		pporting
Woody Vine Stratum (plot size:	Mil	/					emarks or on a s		
2				***************************************			d Non-Vascular		
		0	= Total Cover	- Andrews	1Indicators of hydric		tic Hydrophytic \		
		V	- rotal Cover		disturbed or proble		a nyarology mu:	si de present, u	niess
W.D		_			Hydrophytic				
% Bare Ground in Herb Stratum		0			Vegetation	Ye	sX	No_	
Remarks:	· · · · · · · · · · · · · · · · · · ·				Present?				

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Clobr (moist) % Color (moist) % Type¹ Loc² Texture Remarks	Profile Descri Depth	iption: (Describe to t Matrix	he depth	needed to docum		dicator or cor	nfirm the abse	nce of indicators.)	
0-18			%	Color (moist)			l oc²	Toyture	Damanla
O-15 T.SYR 3/4 3 C PL Silly Clay ORa; fine Orange Commentation Despite Control Matrix, CS-Covered or Coaled Sand Grains. Type: Co-Concentration, D-Deptelsion, RNA-Reduced Matrix, CS-Covered or Coaled Sand Grains. Type: Co-Concentration, D-Deptelsion, RNA-Reduced Matrix, CS-Covered or Coaled Sand Grains. Type: Co-Concentration, D-Deptelsion, RNA-Reduced Matrix, CS-Covered or Coaled Sand Grains. Type: Co-Concentration, D-Deptelsion, RNA-Reduced Matrix, CS-Covered or Coaled Sand Grains. Type: Co-Concentration, D-Deptelsion, RNA-Reduced Matrix, CS-Covered or Coaled Sand Grains. Sandy Reduce (AS) Indicators for Problematic Hydric Solits*, 1460-1471. Sandy Reduce (AS) Sandy Reduce (AS) Person Muckly Mineral (F1) (except Mark 1) Person Muckly M	* * · · · · · · · · · · · · · · · · · ·								
Types: C-Concentration, D-Depletion, Rid-Fladuoed Matrix, CS-Cowerd or Coated Sand Grains. 1- Acadism PL-Pore Liring, MeMatrix, Mydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histo Epipedon (A2) Back-Hairic (A3) Back-Hairic (A3) Back-Hairic (A3) Depleted Below Purk, Surface (A11) Depleted Dark Surface (F2) Sandy Mickly Mineral (S1) Sandy Gloyed Matrix (G4) Redox Depressions (F8) Restrictive Layer (if present): Type: Hydric Soil Present? Yes X No Depth (northers): Hydric Soil Present? Yes X No Wort Marka (B1) X Seturation (A3) Surface Water (A11) Apartic Invertebrates (B13) Depressions (B11) Apartic Invertebrates (B13) Sediment Deposits (B2) Apartic Invertebrates (B13) Depressions (B2) Apartic Invertebrates (B13) Sediment Deposits (B3) X Soil-Redox (B2) Apartic Invertebrates (B13) Depressions (B11) Apartic Invertebrates (B13) Depressions (B11) Sediment Deposits (B3) Apartic Invertebrates (B13) Depressions (B11) Apartic Invertebrates (B13) Depressions (B11) Sediment Deposits (B3) Surface Water (A11) Depression (B1) Selection (B1)									
Hydric Soll Indicators (Applicable to all LRRs, unless otherwise noted.) Histocol (A1) Histocol (A1) Histocol (A2) Histocol (A2) Histocol (A2) Histocol (A3) Histocol (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Histocol (A12) Sandy Muscly Mineral (G1) Surface Water (A1) Water dained Leaves (B1) Water Indicators (minimum of one required; check all that apply) Wetland Hydrology indicators: Primary Indicators (minimum of one required; check all that apply) Wetland Hydrology indicators: Primary Indicators (minimum of one required; check all that apply) Water stained Leaves (B1) X High Water Table (A2) X Saturation (A3) X Dianage Patterns (B10) Dys-Season Water (A1) X Dianage Patterns (B10) Dys-Season Water (A1) X Dianage Patterns (B10) Dys-Season Water Table (C2) Saturation (A3) X Saturation (A3)				7.51K 3/4		<u> </u>	PL PL	Sifty Clay	ORs; fine
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histor Epipedon (AZ) Histor Epipedon (AZ) Histor Epipedon (AZ) Black Histor (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Baker Dark Surface (A11) Depleted Baker Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depleted Mark (K2) Redox Depleted Dark Surface (F5) Findicators of hydropytic vegetation and wetler opportunities. Restrictive Layer (if present): Type: Primary Indicators (minimum of one required, check all that apply) Wetland Hydrology indicators: Primary Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (minimum of one required, check all that apply) Wetland Hydrology Indicators (Minimum of one required, check all that apply) Wetland Hydrology Indicators (R5) Indicators (R5) Secondary Indicators (R5) Indicators (R5) Secondary Indicators (R5) Wetland Hydrology Indicators (R5) Indic									
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Histose (A7)							a Giallis.	- المحال	
Histic Epipedon (A2)			oubic to	un Litto, unes	s Official	-	(05)	Indic	
Black Histic (A3)									2 cm Muck (A10)
Hydrogen Sulfide (A4)						•	` '		Red Parent Material (TF2)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sendy Mucky Mineral (S1) Sendy Gleyed Matrix (S4) Redox Dark Surface (F5) Sendy Gleyed Matrix (S4) Redox Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Primary Indicators: Wetland Hydrology Indicators: Primary Indicators (minimum of one required, check all that appty) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) Aquatic Inverted Residual (A3) Sediment Deposits (B1) Aquatic Inverted Residual (A3) Sediment Deposits (B1) Agail Mat or Crust (B4) Presence of Reduced iron (C4) Recent Iron Reduction in Plewed Soils (C5) Agail Mat or Crust (B8) Invaded Residual (B5) Surface Surface (B8) Recent Iron Reduction in Plewed Soils (C6) Surface Soil Cracks (B8) Invaded Oracks (B8) Research (R6) Research (R7) Reference Reference Resulted (R7) Reference Research (R8) Reference Researc		, ,				Loamy Mucky	Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No Depth (inches): Water stained Leaves (B9) (Except MLRA Water staine		Hydrogen Sulfide (A4)				Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
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Restrictive Layer (if present):		Sandy Mucky Mineral	(S1)			Depleted Darl	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
Type:		Sandy Gleyed Matrix (S4)			Redox Depres	ssions (F8)		
Type:	Restrictive I	aver (if present):				· '			problematio.
Depth (inches):		ayor (ii procerty.							
Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required; Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9)) Wetland Hydrology Mater (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9)) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9)) X High Water Table (A2) 1, 2, 4A, and 4B) X Saturation (A3) Salt Crust (B11) X Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imager (D1) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) X Sea-Neutral Test (D5) Sturted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Frost-Heave Hummocks (D7) Frost-General Reduced Iron (Patter Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes X No Depth (inches): O Wetland Hydrology Present? Yes X No Depth (inches): O Depth						_			
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Algal Mat or Crust (B4)			,	•		-		Living Roots (C3)	
Iron Deposits (B5)				•					
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Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes		•	′	rery (B7)			-		***
Field Observations: Surface Water Present? Yes						Otriei (Expiairi	iii Reiliaiks)		Frost-Heave Hummocks (D7)
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Saturation Present? Yes X No Depth (inches): 0 Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		_			Depth ((inches):			
(Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Pre	esent? Yes _	<u>X</u>	No	Depth ((inches):	<9	Wetland Hydr	ology Present?
			X	No	Depth ((inches):	0		Yes X No
	Describe Record	ded Data (stream gau	ge, monit	oring well, aerial pho	otos, previ	ous inspection	s), if available:		
emarks:					-	,	•		
emarks:									
	emarks:		*						

PHS #	6464
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WETLAND DET	ERMINATION	I DATA FO	RM - West	ern Mountains, Valleys, and Coast Region
Project/Site: Oak Ridge Subdiv		City/County:		innville/Yamhill Sampling Date: 4/17/2018
Applicant/Owner: Premier Develop	ment, LLC			State: OR Sampling Point: 28
Investigator(s): CR/JT		Section, To	ownship, Range:	
Landform (hillslope, terrace, etc.:)	Berm			oncave, convex, none): Convex S(ope (%): 5
Subregion (LRR): LRR	Α	Lat:	45.228	
Soil Map Unit Name:	Waldo Silf	- ty Clay Loam		NWI Classification: None
Are climatic/hydrologic conditions on the site	typical for this time	e of year?	Yes	
Are vegetation Soil or H	Hydrology	significantly dist	turbed?	Are "Normal Circumstances" present? (Y/N) Y
Are vegetation Soil or h				d, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Atta				locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	X No	HOWING SAN	ŀ	
Hydric Soil Present? Yes	No	Х	Is Sampled Ai	urea within and? YesNo X
Wetland Hydrology Present? Yes	No	X	a Weliai	ind?
Remarks:				
VEGETATION - Use scientific na	mes of plants) .		
	absolute % cover	Dominant Species?	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (plot size:)	Species	Status	Number of Dominant Species
1	•			That are OBL, FACW, or FAC: 1 (A)
2				1 (7)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
	0 =	= Total Cover		
Sapling/Shrub Stratum (plot size:)			Percent of Dominant Species
1				That are OBL, FACW, or FAC: 100% (A/B)
2				
3				Prevalence Index Worksheet:
4				Total % Cover of Multiply by:
5				OBL Species x 1 = 0
	=	= Total Cover		FAC Species x2 = 0
Herb Stratum (plot size: 5)			FAC Species
1 Alopecurus pratensis	90	Х	FAC	UPL Species x5= 0
2 Agrostis capillaris	10		FAC	Column Totals 0 (A) 0 (B)
3				
4				Prevalence Index =B/A = #DIV/0!
5				
7				Hydrophytic Vegetation Indicators:
8				1- Rapid Test for Hydrophytic Vegetation
	100 =	T-1-I Cover		X 2- Dominance Test is >50%
	IUV -	= Total Cover		3-Prevalence Index is ≤ 3.0¹ 4-Morphological Adaptations¹ (provide supporting
Woody Vine Stratum (plot size:)			data in Remarks or on a separate sheet)
1				5- Wetland Non-Vascular Plants 1
2				Problematic Hydrophytic Vegetation ¹ (Explain)
	0 =	Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless
			1	disturbed or problematic.
% Bare Ground in Herb Stratum	0		i	Hydrophytic Vegetation Yes X No
		orași de la constantina della		Present?
Remarks:		and the same of th		Present?

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Sampling Point:

28

Depth	Matrix			o accume		x Features	mini the abser	nce of indicators.)	
(Inches)	Color (moist)	%	Color ((moist)	%	Type ¹	Loc ²	Texture	Damanda
0-18	10YR 2/2	100	00101 ((molot)	70	1,700	200	Clay	Remarks
			-/					Clay	
					·		•		
									The state of the s
	-				***************************************		Madala da ayan yan in jaka da ayan y		
	T					***************************************			
	ncentration, D=Depleti							S	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	I Indicators: (Appl	icable to	all LRRs	s, unless	otherwi	se noted.)		Indic	ators for Problematic Hydric Soils ³ :
With A supplementary	_Histosol (A1)			_		Sandy Redox	((\$5)		2 cm Muck (A10)
	Histic Epipedon (A2)			_		Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A3)			_		Loamy Muck	y Mineral (F1) (e	xcept MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4)		_		Loamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A	.11)			Depleted Mat	trix (F3)		
	Thick Dark Surface (/	1 12)		_		Redox Dark 8	Surface (F6)		
	Sandy Mucky Minera	l (S1)		_		Depleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	(S4)		_		Redox Depre	ssions (F8)		hydrology must be present, unless disturbed or problematic.
Restrictive	Layer (if present)								
Гуре:	, ([
i ype. Depth (inche:	e).				*	-			
Jopan (mone.						-	i	Hydric Soil Pres	sent? Yes No X
Remarks:									
HYDROLO	DGY rdrology Indicator	s:						1.	
HYDROLO Wetland Hy	drology Indicator		ired; che	eck all tha	ıt apply)				Secondary Indicators (2 or more required)
HYDROLC Wetland Hy Primary Indi	rdrology Indicator cators (minimum o		ired; che	eck all tha		Vater stained	Leaves (B9) (E	Except MLRA	Secondary Indicators (2 or more required)
HYDROLO Wetland Hy Primary India	rdrology Indicator cators (minimum of Surface Water (A1)	one requ	ired; che	eck all tha	1	Vater stained	Leaves (B9) (E	except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLO Wetland Hy Primary Indi	rdrology Indicator cators (minimum o	one requ	ired; che	eck all tha	1	, 2, 4A, and	4B)	except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLO Wetland Hy Primary Indi	rdrology Indicator cators (minimum of Surface Water (A1) High Water Table (A2	one requ	ired; che	eck all tha	1	, 2, 4A, and Salt Crust (B1	4B)	xcept MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3)	f one requ	ired; che	eck all tha	1 1 	, 2, 4A, and Salt Crust (B1 Aquatic Invert	4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	f one requ	ired; che	eck all tha	1 1 2 2 4	, 2, 4A, and Salt Crust (B1 Aquatic Invert	4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	f one requ)	ired; che	eck all tha	1 1 8 4 1	, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz	4B) 1) ebrates (B13) fide Odor (C1)	Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ)	ired; che	eck all tha	1 1 5 4 4 6	, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F	4B) 1) ebrates (B13) fide Odor (C1) ospheres along	Living Roots (C3) 4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ) 2)	ired; che	eck all tha	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R	4B) ebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C-	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	f one requ) 2) (1)		eck all tha		Salt Crust (B1 Aquatic Invertifydrogen Sul Dxidized Rhiz Presence of F Recent Iron R	4B) (1) (ebrates (B13) (fide Odor (C1) (cospheres along (cospheres along	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I	f one requ) 2) 4) Aerial Image	ery (B7)			Salt Crust (B1 Aquatic Invertifydrogen Sul Dxidized Rhiz Presence of F Recent Iron R	4B) abrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plow	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C	f one requ) 2) 4) Aerial Image	ery (B7)			Salt Crust (B1 Aquatic Invertifydrogen Sul Dxidized Rhiz Presence of F Recent Iron R	4B) abrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plow	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C	f one requ) 2) 4) Aerial Imag	ery (B7)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dixidized Rhiz Presence of Fi Recent Iron R Stunted or Str	4B) abrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plow	Living Roots (C3) 4) ved Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Covations:	f one requ) 2) 4) Aerial Imag	ery (B7) face (B8)		Leave to the second of the sec	A, 2, 4A, and Salt Crust (B1 Aquatic Invertigation of Presence of Frederick Iron Returned or Strutter (Explain nches):	4B) ebrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coteduction in Plov ressed Plants (Din in Remarks)	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLO Wetland Hy Primary India Field Observator Water Table Production Presentation Present	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (II Inundation Visible on Sparsely Vegetated Covations: Present? Yes sent? Yes	f one requ) 2) 4) Aerial Imag	ery (B7) face (B8) No		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dixidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair Inches): Inches):	4B) abrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plow	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLO Wetland Hy Primary India Field Observator Table Presented Scapillar	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes y fringe)	f one requ 2) 36) Aerial Imagoncave Sur	ery (B7) face (B8) No No No	x x x	Depth (i	A, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dixidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair Inches): Inches	4B) 11) ebrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plov ressed Plants (Din in Remarks) >18 >18	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLO Wetland Hy Primary India Field Observator Table Presented Scapillar	cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (II Inundation Visible on Sparsely Vegetated Covations: Present? Yes sent? Yes	f one requ 2) 36) Aerial Imagoncave Sur	ery (B7) face (B8) No No No	x x x	Depth (i	A, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dixidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair Inches): Inches	4B) 11) ebrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plov ressed Plants (Din in Remarks) >18 >18	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLO Wetland Hy Primary India Field Observator Table Presented Scapillar	cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes y fringe)	f one requ 2) 36) Aerial Imagoncave Sur	ery (B7) face (B8) No No No	x x x	Depth (i	A, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dixidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair Inches): Inches I	4B) 11) ebrates (B13) fide Odor (C1) cospheres along Reduced Iron (Coleduction in Plov ressed Plants (Din in Remarks) >18 >18	Living Roots (C3) 4) ved Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

	WETLAND	DETERMINATIO	N DATA FO	RM - West	ern Mountai	ns, Valle	eys, and Coas	PHS # st Region	6464
Project/Site:		Subdivision	City/County:	McM	linnville/Yamhi	<u> </u>	Sampling Date:	4/17	7/2018
Applicant/Owner:	Premier Do	evelopment, LLC			and the second	State:	OR	Sampling Point:	29
Investigator(s):		CR/JT	Section, To	ownship, Range:	The state of the s	Section	17, Township 4	S, Range 4W	
Landform (hillslope	e, terrace, etc.:)	Flats		Local relief (co	oncave, convex, n	one):	None	Slope (%):	2
Subregion (LRR):		LRR A	Lat:	45.228	916	Long:	-123.211944	Datum:	WGS84
Soil Map Unit Name	e:	Waldo S	ilty Clay Loam			NWI Class	sification:	None	
Are climatic/hydrolo	ogic conditions or	n the site typical for this t	ime of year?	Yes	X	No	(if no, exp	lain in Remarks)	
Are vegetation	Soil	or Hydrology	significantly dis	turbed?	Are "Normal C		s" present? (Y/N)		
Are vegetation	Soil	or Hydrology	naturally proble	matic? If neede	d, explain any ans	wers in Rem	arks.)		
SUMMARY OF	F FINDINGS	– Attach site map							
Hydrophytic Vegeta		Yes X No		1		ansects,	important reati	ures, etc.	
Hydric Soil Present	?	Yes X No		is Sampled A a Wetla	rea within	Yes	X	No	
Wetland Hydrology	Present?	Yes X No		a vvetia	nu f	100			
Remarks:									**************
VEGETATION	- Use scient	ific names of plan	ts.						
		absolute	Dominant	Indicator	Dominance 1	Fest works	sheet:		
Tree Stratum (plo	ot size ·	<u>% cover</u>	Species?	Status	At 5 =				
1 Prunus sp.	Ot 5/20.	50	v	(EAC)	Number of Dom	-			
2 Salix sp.		20	<u>X</u>	(FAC)	That are OBL, F	ACW, or FA	.C:	4	(A)
3 Fraxinus lati	folia	10		FACW	Total Number of	f Dominant			
4					Species Across			4	(B)
		80	= Total Cover						(5)
Sapling/Shrub Strate	um (plot size:	15)			Percent of Domi	inant Specie	e		
1 Rubus armer	niacus	50	Х	FAC	That are OBL, F	•		100%	(A/B)
2 Salix sp.		10		(FAC)		, , , , , , , , , , , , , , , , , , , ,		10070	,,,,
3 Rosa sp.		5		(FAC)	Prevalence In	ndex Work	sheet:		
4					Total % Cover o	f	Multiply by	<u>: </u>	
5					OBL Spec	ies	x1=	0	
		65	= Total Cover		FACW spec		x 2 =	0	
<u>-ferb Stratum</u> (plo	ot size:	5)			FAC Spec		x3=	0	
1 Poa trivialis		50	х	FAC	FACU Spec		x 4 =	0	
2				170	Column To		x 5 =	0 (D)
3					Column 10		<u>0</u> (A)	(B)
4					Prevalence	e Index =B/A	.= #I	DIV/0!	
5							17.		
6					Hydrophytic '	Vegetation	Indicators:		
7							Rapid Test for Hydro	phytic Vegetation	
8							Dominance Test is >		
		50	= Total Cover			- Manager and the	revalence Index is≤		
Voody Vine Stratum	(plot size:	,					lorphological Adapta		pporting
1	į (piut aize.	}					a in Remarks or on a		
2			·				Vetland Non-Vascul		
		0	= Total Cover		Indicators of b	وجبر وسندا النقدالدي	blematic Hydrophyti wetland hydrology n		
		V	Total Cover		disturbed or prob		wenanu nyurology m	iusi pe present, u	niess

Hydrophytic Vegetation Present?

No___

Yes X

% Bare Ground in Herb Stratum

Remarks:

^	\sim	

рн	2	#	

Sampling Point:

Depth	ption: (Describe to Matrix				Features		,	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/1	100					Silt Loam	A THE STATE OF THE
3-16	10YR 3/1	95	7.5YR 3/3	5	<u>c</u>	М	Silty Clay Loam	Medium
	-							
					1		, the state of the	
	entration, D=Depleti							² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli	icable to	all LRRs, unless	s otherwis	se noted.)		Indica	tors for Problematic Hydric Soils³:
	Histosol (A1)			8	Sandy Redox	k (S5)		2 cm Muck (A10)
	fistic Epipedon (A2)				Stripped Mat	• ,		Red Parent Material (TF2)
	Black Histic (A3)			L	oamy Muck	y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
t	dydrogen Sulfide (A4)		L	.oamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	Surface (A	.11)		Depleted Ma	trix (F3)		
7	hick Dark Surface (A	\12)		XR	Redox Dark	Surface (F6)		
8	Sandy Mucky Mineral	(S1)			Depleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
s	Sandy Gleyed Matrix	(S4)			Redox Depre			hydrology must be present, unless disturbed or problematic.
estrictive L	.ayer (if present):							
ype:								
epth (inches)								
emarks:							Hydric Soil Prese	ent? Yes X No
emarks: IYDROLOG Vetland Hyd	GY rology Indicators						Hydric Soil Prese	ent? Yes X No
emarks: IYDROLOG /etland Hyd rimary Indica	GY rology Indicators ators (minimum of		ired; check all tha	at apply)			Hydric Soil Prese	Secondary Indicators (2 or more required)
YDROLOG (etland Hyd rimary Indica	GY rology Indicators ators (minimum of urface Water (A1)	one requ	ired; check all th	v		Leaves (B9) (Secondary Indicators (2 or more required) Water stained Leaves (B9)
YDROLOG etland Hyd imary Indice X H	GY rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2)	one requ	ired; check all th:	W 1,	, 2, 4A, and	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOG etland Hyd imary Indica S X H X S	GY rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3)	one requ	ired; check all tha	W 1, Sa	, 2, 4A, and alt Crust (B1	4B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
YDROLOG etland Hyd imary Indica X H X S	GY rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1)	one requ	ired; check all the	W 1, Ad	, 2, 4A, and alt Crust (B1 quatic Invert	4B) 1) ebrates (B13)		Secondary Indicators (2 or more required) Water stained Leaves (89) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOG etland Hyd imary Indica X H X S	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B.	one requ	ired; check all the		, 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul	4B) 1) ebrates (B13) fide 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
YDROLOG etland Hyd imary Indic X H X S W	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1) ediment Deposits (B3)	one requ	ired; check all tha	W 1, Sa Ad H:	, 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz	4B) 1) ebrates (B13) fide Odor (C1) ospheres along	Except MLRA g 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 Geomorphic Position (D2)
YDROLOG etland Hyd rimary Indica X X S W S D A	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4)	one requ	ired; check all that - - - - -	W, 1, Si Ad	, 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz resence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) C4)	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 Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOG Vetland Hyd rimary Indica S X H X S W S D Al	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4 on Deposits (B5)	one requ	ired; check all the	W 1, Si Ai Ai Pr	alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz resence of F ecent Iron R	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) C4) 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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5)
YDROLOG Vetland Hyd rimary Indica S X H X S UN S Indicates	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (E	one requ 2) 3 66)	-	W. 1, Si Ai H: O: Pr Ri St	alt Crust (B1 quatic Invert ydrogen Sul xidized Rhiz resence of R ecent Iron R tunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C eduction in Plo essed Plants (I	Except MLRA g Living Roots (C3) C4) 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 Geomorphic Position (D2) Shallow Aquitard (D3) X Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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W	/ETLAND DETE	RMINATIO	N DATA FO	RM - West	ern Mountains, Valle	evs. and Coast	PHS# 6464
	Oak Ridge Subdiv		City/County:		linnville/Yamhill	Sampling Date:	
	Premier Developm		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		State:		4/17/2018
Investigator(s):	CR/JT		Section, To	wnship, Range:		17, Township 4S, I	ampling Point: 30
Landform (hillslope, te	errace, etc.:)	Slope			oncave, convex, none):	None	The state of the s
Subregion (LRR):	LRR		Lat:	45.228			Slope (%): 2
Soil Map Unit Name:		Waldo Si	– ilty Clay Loam			A CONTRACT OF THE PARTY OF THE	Datum: WGS84
Are climatic/hydrologic	conditions on the site			Yes		sification:(if no. explain	None
Are vegetation	-		_significantly dist		Are "Normal Circumstance	(,	,
Are vegetation					d, explain any answers in Ren		Y
SUMMARY OF F	INDINGS - Attac	ch site map	showing san	npling point	locations, transects,	important feature	s, etc.
Hydrophytic Vegetation	n Present? Yes	X No					
Hydric Soil Present?	Yes _	No.	X	is Sampled A a Wetla	rea within nd? Yes	No	X
Wetland Hydrology Pre	esent? Yes	No	X	-			
Remarks:				<u></u>			
VEGETATION - U	Jse scientific nar						
		absolute % cover	Dominant Species?	Indicator Status	Dominance Test works	sheet:	
<u>Tree Stratum</u> (plot s	size: 30)	70 00 101	Орсоюз	Otatus	Number of Dominant Specie	ne .	
1 Crataegus dou	glasii	60	Х	FAC	That are OBL, FACW, or FA		(A)
2 Fraxinus latifol	lia	10		FACW			(/-)
3					Total Number of Dominant		
4					Species Across All Strata:	4	(B)
		70	= Total Cover				· /
Sapling/Shrub Stratum	(plot size: 15)			Percent of Dominant Specie	s .	
1 Crataegus douţ	glasii	50	X	FAC	That are OBL, FACW, or FA		% (A/B)
2 Rubus armenia	cus	30	Х	FAC			(, , , ,
3					Prevalence Index Work	sheet:	
4					Total % Cover of	Multiply by:	
5					OBL Species	x1=	0
		08	= Total Cover		FACW species	x2=	0
Herb Stratum (plot si	ze: 5)				FAC Species	x3=	0
1 Polystichum mi		20	X	FACU	FACU Species	×4= _	0
2				TACO	UPL Species Column Totals	0 (A) x 5 = _	0 (B)
3					Column Totals	<u>0</u> (A)	0 (B)
4					Prevalence Index =B/A	= #DIV	<i>'</i> (O)
5						11.014	
6					Hydrophytic Vegetation	ı İndicators:	
7					_	Rapid Test for Hydrophy	tic Vegetation
8						Dominance Test is >50%	
		20	= Total Cover			revalence Index is≤ 3.0	
	(plot size:	,				lorphological Adaptatior	
Moody Vina Ctratum	(piot size.	·'				a in Remarks or on a se	•
					5- V	Vetland Non-Vascular P	'lants'
1					_		1
			= Total Caves			blematic Hydrophytic Ve	
1		0	= Total Cover		Pro Indicators of hydric soil and disturbed or problematic.		
1	Stratum 8	,	= Total Cover		¹ Indicators of hydric soil and		

Remarks:

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PHS	Ħ		

Sampling Point:

Profile Description: (Describe to the Depth Matrix	c depin i	recaed to docume		Features	iiiiriii the absei	nce of indicators.)	
(Inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Demonto
0-24 10YR 3/2	100		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 7/6-		Silt Loam	Remarks
No. of the last of	-	positive promitions				Siit Loain	
					·		
					·		
		W	Name of the last o		Manager 2		
¹ Type: C=Concentration, D=Depletion	. RM=Red	duced Matrix CS=0	Covered or	Coated San	d Grains	A CONTRACTOR OF THE PARTY OF TH	21
Hydric Soil Indicators: (Applic						India	² Location: PL=Pore Lining, M=Matrix.
Histosol (A1)		Litto, amese		-		indica	ators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)		•		andy Redo			2 cm Muck (A10)
. ,		•		tripped Mat	• •		Red Parent Material (TF2)
Black Histic (A3)			L	oamy Muck	y Mineral (F1) (e	xcept MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)			L	oamy Gleye	d Matrix (F2)		Other (explain in Remarks)
Depleted Below Dark S	urface (A1	l1) -	D	epleted Ma	trix (F3)		
Thick Dark Surface (A1	2)	•	R	edox Dark	Surface (F6)		
Sandy Mucky Mineral (S1)	•			k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
Sandy Gleyed Matrix (S	4)	-			ssions (F8)		hydrology must be present, unless disturbed or
Restrictive Layer (if present):				- Court	3010113 (1 0)	· · · · · · · · · · · · · · · · · · ·	problematic.
Type:							
Depth (inches):						Hydric Soil Pres	ent? Yes No X
						1174110 0011 1 103	
Remarks: HYDROLOGY Wetland Hydrology Indicators:						Tyuno don res	
HYDROLOGY Wetland Hydrology Indicators:	ne requii	red; check all tha	at apply)			Tyuno don res	
HYDROLOGY	ne requii	red; check all tha		ater stained			Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1)	ne requii	red; check all tha	w	ater stained 2, 4A, and	Leaves (B9) (E		Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2)	ne requii	red; check all tha	W 1,	2, 4A, and	Leaves (B9) (E 4 B)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3)	ne requii	red; check all tha	W 1, Sa	2,4A, and alt Crust (B1	Leaves (B9) (E 4B) 1)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne requii	red; check all tha - -	W. 1, Sa Ad	2,4A, and alt Crust (B1 quatic Invert	Leaves (B9) (E 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)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ne requii	red; check all tha - - -	W. 1, Sa Ad	2,4A, and alt Crust (B1 quatic Invert /drogen Sul	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1)	xcept 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
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne requii	red; check all tha	W. 1, Sa Ad Hy	2,4A, and alt Crust (B1 quatic Invertordrogen Sulkidized Rhiz	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along	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
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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)		- - - -	W. 1, Sa Ac Hy Ox Pri Re	2,4A, and alt Crust (B1 quatic Invert ydrogen Sul kidized Rhiz esence of R ecent Iron R unted or Str	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C4 eduction in Plow essed Plants (D	Except MLRA Living Roots (C3) 4) ved 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) Geomorphic Position (D2) Shallow Aquitard (D3)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con	rial Image	- - - - - ry (87)	W. 1, Sa Ac Hy Ox Pri Re	2,4A, and alt Crust (B1 quatic Invert ydrogen Sul kidized Rhiz esence of R ecent Iron R unted or Str	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C4 eduction in Plow essed Plants (D	Except MLRA Living Roots (C3) 4) ved 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 (Companies Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae	rial Image	- - - - - ry (87)	W. 1, Sa Ac Hy Ox Pri Re	2,4A, and alt Crust (B1 quatic Invert ydrogen Sul kidized Rhiz esence of R ecent Iron R unted or Str	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C4 eduction in Plow essed Plants (D	Except MLRA Living Roots (C3) 4) ved 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con	rial Image cave Surfa	ry (B7) ace (B8)	William No. 1, See Add Hy Ob Pro	2, 4A, and alt Crust (B1 quatic Invert rdrogen Sul kidized Rhiz esence of Recent Iron R unted or Str her (Explair	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along deduced Iron (C4 eduction in Plow essed Plants (D	Living Roots (C3) 4) ved Soils (C6) 11) (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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con Field Observations: Surface Water Present? Yes Saturation Present? Yes	rial Image cave Surfa	ry (B7)ace (B8)	W 1, Sa Ac Hy O> Pri Re Sti Oti Depth (inc	2, 4A, and alt Crust (B1 quatic Inverted of Second Iron Reported or Street (Explair Ches):	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4 eduction in Plow essed Plants (D n in Remarks)	Living Roots (C3) 4) ved Soils (C6) 11) (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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con Field Observations: Surface Water Present? Yes Water Table Present? Yes	rial Image cave Surfa	ry (B7) ace (B8)	W 1, Sa Ac Hy O> Prr Re Str Oti	2, 4A, and alt Crust (B1 quatic Inverted of Second Iron Reported or Street (Explair Ches):	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C4 eduction in Plow essed Plants (D n in Remarks)	Living Roots (C3) 4) ved Soils (C6) 11) (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) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con Field Observations: Surface Water Present? Yes Water Table Present? Yes Includes capillary fringe)	rial Image cave Surf	ry (B7) ace (B8) No X No X No X	Windows Additional Processing Additional Pro	2, 4A, and alt Crust (B1 quatic Inverted (B2) (idized Rhizesence of Recent Iron Recent Iro	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4 eduction in Plow essed Plants (D n in Remarks) >24 >24 >24	Living Roots (C3) 4) ved Soils (C6) 11) (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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con Field Observations: Surface Water Present? Yes Saturation Present? Yes	rial Image cave Surf	ry (B7) ace (B8) No X No X No X	Windows Additional Processing Additional Pro	2, 4A, and alt Crust (B1 quatic Inverted (B2) (idized Rhizesence of Recent Iron Recent Iro	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4 eduction in Plow essed Plants (D n in Remarks) >24 >24 >24	Living Roots (C3) 4) ved Soils (C6) 11) (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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con Field Observations: Surface Water Present? Yes Water Table Present? Yes Includes capillary fringe)	rial Image cave Surf	ry (B7) ace (B8) No X No X No X	Windows Additional Processing Additional Pro	2, 4A, and alt Crust (B1 quatic Inverted (B2) (idized Rhizesence of Recent Iron Recent Iro	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4 eduction in Plow essed Plants (D n in Remarks) >24 >24 >24	Living Roots (C3) 4) ved Soils (C6) 11) (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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 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 Ae Sparsely Vegetated Con Field Observations: Surface Water Present? Yes Vater Table Present? Yes Includes capillary fringe)	rial Image cave Surf	ry (B7) ace (B8) No X No X No X	Windows Additional Processing Additional Pro	2, 4A, and alt Crust (B1 quatic Inverted (B2) (idized Rhizesence of Recent Iron Runted or Strate (Explair ches): ches): ches):	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4 eduction in Plow essed Plants (D n in Remarks) >24 >24 >24	Living Roots (C3) 4) ved Soils (C6) 11) (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)

PHS# ast Region	6464
e: 4/17/2	018
Sampling Point:	
4S, Range 4W	
Slope (%):	5
4 Datum:	
Mono	
xplain in Remarks)	
) <u>Y</u>	
atures, etc.	
4.4.00, 0.0.	
No	
2 (A))
3 (D)	
2 (B)	' <u> </u>
100% (A/	·B)
(70	,
by:	
= 0	
= 0	
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= 0	
0 (B)	
#DIV/0!	
drophytic Vegetation	
s >50%	
s ≤ 3.0 ¹	
ntational (provide augn	antina.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coa Oak Ridge Subdivision McMinnville/Yamhill

Project/Site:	Oak Ridge	Subdiv	/ision	City/County:	McM	innville/Yamhill	Sampling Date:	4/17	2018
Applicant/Owner:	Premier D	evelopr	ment, LLC			State:	•	Sampling Point:	31
Investigator(s):		CR/JT		Section, To	wnship, Range:	Section	on 17, Township 4	· · · · -	
Landform (hillslope, to	errace, etc.:)		Slo	pe	Local relief (co	oncave, convex, none):	None	Slope (%):	5
Subregion (LRR):	N. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	LRR	Α	Lat:	45.228			Datum:	
Soil Map Unit Name:			Waldo	Silty Clay Loam			assification:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Are climatic/hydrologi	c conditions of	n the site			Yes	· · · · · · · · · · · · · · · · · · ·	(if no, exp		
Are vegetation				significantly dist	urbed?	Are "Normal Circumstan			
Are vegetation	Soil_	or F	lydrology -			d, explain any answers in R		***************************************	
01111111111111			_						
SUMMARY OF I	-INDINGS		ch site ma	ap showing san	npling point	locations, transects	, important feat	ıres, etc.	
Hydrophytic Vegetatio	n Present?	Yes		No	is Sampled A	rea within			
Hydric Soil Present?		Yes .	X	No	a Wetla		X	No	
Netland Hydrology Pr	esent?	Yes	X	No					
Remarks:									
(FOETATION)									
/EGETATION -	Use scien	tific na							
			absolute % cover		Indicator Status	Dominance Test wor	ksheet:		
ree Stratum (plot	size:)		-14140	Number of Dominant Spe	cies		
1				_		That are OBL, FACW, or		2 (/	()
2								· · · · · · · · · · · · · · · · · · ·	7
3						Total Number of Dominan	t		
4		The same of the sa				Species Across All Strata:		2 (6	3)
			0	= Total Cover					
apling/Shrub Stratum	l (plot size:		_)			Percent of Dominant Spec	cies		
1						That are OBL, FACW, or	FAC:1	100% (A	VB)
3						Prevalence Index Wo	rksheet:		
1						Total % Cover of	Multiply by:	-	
			0	- T-4-1 O		OBL Species	x 1 =	0	
				= Total Cover		FACW species FAC Species	x2= x3=	0	
erb Stratum (plot s	ize:	5)				FACU Species	x4=	0	
Alopecurus pra	itensis		80	X	FAC	UPL Species	x 5 =	0	
2 Trifolium reper	s		30	X	FAC	Column Totals	0 (A)	0 (B)
3						_			
				-	· · · · · · · · · · · · · · · · · · ·	Prevalence Index =E	A = #[DIV/0!	
3				-			····		
,						Hydrophytic Vegetati			
							- Rapid Test for Hydro		
			110	= Total Cover			- Dominance Test is > -Prevalence Index is ≤		
				- 10(a) 0076)			-Prevalence index is ≤ -Morphological Adapta		porting
oody Vine Stratum	(plot size:		_)				ata in Remarks or on a	•	
							- Wetland Non-Vascula		
						P	roblematic Hydrophytic	c Vegetation¹ (Expl	ain)
			0	= Total Cover		Indicators of hydric soil an	d wetland hydrology m	iust be present, un	ess
						disturbed or problematic. Hydrophytic			
Bare Ground in Herb	Stratum		0			Vegetation	Yes X	No	
						Present?			

D	пe	##	

Sam	plina	Point:
Oan		I Ont.

•	4

Profile Descrip	ption: (Describe to t Matrix	ne aepin i	needed to documen		rcator or co	niirm the abs	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks
0-5	10YR 3/2	100					Silty Clay Loam	Nemano
5-10	10YR 3/2	95	5YR 5/4	5	С	PL	Silty Clay Loam	Medium
10-16	10YR 3/1	93	2.5Y 4/2	5	C	M	Silty Clay Loam	Large
10-16			5YR 5/4	2		PL	Silty Clay Loam	
						FL	Sitty Clay Loan	Medium
							Total de la companya	
¹ Type: C=Conc	entration, D=Depletio	n, RM=Re	duced Matrix, CS=C	overed or	Coated San	d Grains		² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applic							tors for Problematic Hydric Soils ³ :
	listosol (A1)		-		Sandy Redox		*****	2 cm Muck (A10)
F	listic Epipedon (A2)		_		Stripped Mat			Red Parent Material (TF2)
	Black Histic (A3)		-		• •	• ,	except MLRA 1)	
	lydrogen Sulfide (A4)		_			d Matrix (F2)	except mater 1,	Very Shallow Dark Surface (TF12)
	Depleted Below Dark S		11)		Depleted Mat			Other (explain in Remarks)
	hick Dark Surface (Af	•	- '''		Redox Dark S			
	andy Mucky Mineral (_			` '		Indicators of hydrophytic vegetation and wetland
	andy Gleyed Matrix (. ,	-			k Surface (F7)		hydrology must be present, unless disturbed or
		34)	***************************************		Redox Depre	ssions (ro)	P	problematic.
	ayer (if present):							
Type:								
Depth (inches):	: 				_		Hydric Soil Prese	ent? Yes X No
Remarks:								
HYDROLOG	SY rology Indicators	:						
HYDROLOG Wetland Hyd			red; check all that	: apply)				Secondary Indicators (2 or more required)
HYDROLOG Wetland Hydi Primary Indica	rology Indicators:		red; check all that		Vater stained	Leaves (B9) (Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
HYDROLOG Wetland Hydro Primary Indica So X Hi	rology Indicators: ators (minimum of c		ired; check all that	٧	Vater stained , 2, 4A, and			
HYDROLOG Wetland Hydi Primary Indica St X Hi	rology Indicators: ators (minimum of ourface Water (A1)		ired; check all that	V 1		4B)		Water stained Leaves (B9)
HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa	rology Indicators: ators (minimum of c urface Water (A1) igh Water Table (A2)		ired; check all that		, 2, 4A, and alt Crust (B1	4B)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W	ators (minimum of of our face Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2)	one requi	ired; check all that	W 1 s A	, 2, 4A, and alt Crust (B1 quatic Invert	4B) 1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1)	one requi	ired; check all that	V 1 S A H	, 2, 4A, and alt Crust (B1 quatic Invert lydrogen Sult	4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Wetland Hydi Primary Indica SI X Hi X Sa W Se Dr	ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4)	one requi	ired; check all that	V 1 5 A H X O	, 2, 4A, and all Crust (B1 quatic Invertoly lydrogen Sultantic Rhized Rhized Rhized)	4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C
HYDROLOG Wetland Hydi Primary Indica SI X Hi X Sa W Se Dr	rology Indicators: ators (minimum of curface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	one requi	ired; check all that	X O	, 2, 4A, and a salt Crust (B1 aquatic Invertelly drogen Sulta a salt a s	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (C	Except MLRA g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Sa Dr Ali	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5)	one requi		X 00 P	, 2, 4A, and a last Crust (B1 quatic Invertible Inverti	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (C	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Sa Dr Ali	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5)	one requi		X O P R S	, 2, 4A, and a latt Crust (B1 quatic Inverted lydrogen Sulfaxidized Rhizaresence of Recent Iron Ratunted or Stratunted or Stratu	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon leduced Iron (Ceduction in Plo	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5)	one requi		X O P R S	, 2, 4A, and a latt Crust (B1 quatic Inverted lydrogen Sulfaxidized Rhizaresence of Recent Iron Ratunted or Stratunted or Stratu	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala	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) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Acceptage	one requi		X O P R S	, 2, 4A, and a latt Crust (B1 quatic Inverted lydrogen Sulfaxidized Rhizaresence of Recent Iron Ratunted or Stratunted or Stratu	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hydi Primary Indica X Hi X Sa W Se Dr Ali Iro	ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 aundation Visible on Accoursely Vegetated Cou	one requi		X O P R S	, 2, 4A, and dalt Crust (B1 quatic Inverterly dydrogen Sulf exidized Rhize resence of Recent Iron Retunted or Streat tunted or Streat ther (Explain	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (C) eduction in Plo	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala Iro Su Int Sp Field Observa	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) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Accountable barsely Vegetated Countains: resent? Yes atir? Yes ators (Minimum of Countains)	one requi	ery (B7) face (B8)	VI 1 S A A H X O P R S S O Depth (in	, 2, 4A, and a call Crust (B1 quatic Inverted by the call of the c	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Places Plants (Central 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 (C) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydr Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Saturation Prese Saturation Scaling from	ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Accouragely Vegetated Courations: resent? Yes ent? Yes ent? Yes ent? Yes entry Ye	one requi	ery (B7) face (B8) No No	VI 1 S A H X O P R Si O Depth (ir	, 2, 4A, and a call Crust (B1 quatic Inverted by the property of the property	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Placessed Plants (In in Remarks) 11 9	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydr Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Saturation Prese Saturation Scaling from	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) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Accountable barsely Vegetated Countains: resent? Yes atir? Yes ators (Minimum of Countains)	one requi	ery (B7) face (B8) No No	VI 1 S A H X O P R Si O Depth (ir	, 2, 4A, and a call Crust (B1 quatic Inverted by the property of the property	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Placessed Plants (In in Remarks) 11 9	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydr Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Saturation Prese Saturation Scaling from	ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Accouragely Vegetated Courations: resent? Yes ent? Yes ent? Yes ent? Yes entry Ye	one requi	ery (B7) face (B8) No No	VI 1 S A H X O P R Si O Depth (ir	, 2, 4A, and a call Crust (B1 quatic Inverted by the property of the property	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Placessed Plants (In in Remarks) 11 9	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydr Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Saturation Prese Saturation Scaling from	ators (minimum of courface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Accouragely Vegetated Courations: resent? Yes ent? Yes ent? Yes ent? Yes entry Ye	one requi	ery (B7) face (B8) No No	VI 1 S A H X O P R Si O Depth (ir	, 2, 4A, and a call Crust (B1 quatic Inverted by the property of the property	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Placessed Plants (In in Remarks) 11 9	Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydro	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) Frost-Heave Hummocks (D7)

Project/Site:			ON DATA FO					3	
	Oak Ridge Su		City/County:	McMi	nnville/Yamhill	Sam	pling Date:	4/17	/2018
Applicant/Owner:		elopment, LLC		·····	S	tate: OR	Sa	mpling Point:	32
Investigator(s):	The same of the sa	₹/JT	Section, To	wnship, Range:	S	ection 17, To	wnship 4S, F	lange 4W	
Landform (hillslope,	terrace, etc.:)	Slope	•	Local relief (cor	ncave, convex, none):		None	Slope (%):	5
Subregion (LRR):		LRR A	Lat:	45.2289	916 L	ong: -12 :	3.211944	Datum:	WGS84
Soil Map Unit Name	:	Waldo S	ilty Clay Loam	····	NV	VI Classification	1:	None	
ર્યre climatic/hydrolog	gic conditions on th	e site typical for this t	ime of year?	Yes	X	No	(if no, explain	in Remarks)	
re vegetation	Soil	or Hydrology	significantly dist	urbed?	Are "Normal Circum	nstances" prese	ent? (Y/N)	Υ	
Are vegetation	Soil	or Hydrology	naturally probler	matic? If needed	l, explain any answers	in Remarks.)	•		
	FINIDINGS	A441							
				npling point	locations, trans	ects, impor	tant feature	s, etc.	
Hydrophytic Vegetati			0	Is Sampled Ar	ea within				
Hydric Soil Present?			0	a Wetlan	ıd?	Yes	_ No_	X	
Wetland Hydrology F	Present? Ye	es N	o <u>X</u>						
emarks:									
/EGETATION -	- Use scientifi	c names of plar	nts.						
		absolute	Dominant	Indicator	Dominance Test	worksheet:			*
		% cover	Species?	Status					
<u>ree Stratum</u> (plot	t size:)			Number of Dominant	•			
1					That are OBL, FACV	V, or FAC:	1	(,	A)
<u> </u>									
4					Total Number of Don				
· ·		0	- T-1-1 C		Species Across All S	trata:	1	(B)
tanlina/Ohm to or			= Total Cover						
Sapling/Shrub Stratu	m (plot size:)			Percent of Dominant	•			
1					That are OBL, FACV	/, or FAC:	100	<u>% </u>	A/B)
² 3									
٧ <u> </u>					Prevalence Index	(Worksheet			
4					Total % Cover of		Multiply by:		
			= Total Cover		OBL Species		_ x1= _	0	
		v	- rotal Cover		FACW species		x2=	0	
					FAC Species		x3=		
5	size: 5)			FAC Species FACU Species		- x3= - x4=	0	
5 l <u>erb Stratum</u> (plot)	x	FAC	FAC Species FACU Species UPL Species		- x3= - x4= - x5=		
5 <u>lerb Stratum</u> (plot 1 Alopecurus pi	ratensis	90	x	FAC FACU	FACU Species	0	x 4 =	0	3)
lerb Stratum (plot 1 Alopecurus pi 2 Taraxacum of	ratensis ficinale		X		FACU Species UPL Species	0	x 4 = x 5 =	0	3)
erb Stratum (plot Alopecurus pr Taraxacum of a Trifolium repe	ratensis ficinale	5	x	FACU	FACU Species UPL Species		x 4 = x 5 =	0 0 0 (E	3)
erb Stratum (plot Alopecurus pi Trifolium repe Vicia sp.	ratensis ficinale	5 3	X	FACU FAC	FACU Species UPL Species Column Totals		x 4 = x 5 =	0 0 0 (E	3)
lerb Stratum (plot 1 Alopecurus pi 2 Taraxacum ofi 3 Trifolium repe 4 Vicia sp.	ratensis ficinale	5 3	X	FACU FAC (FAC)	FACU Species UPL Species Column Totals	ex =B/A =	x 4 = x 5 = (A) #DIV	0 0 0 (E	3)
lerb Stratum (plot Alopecurus pi Taraxacum ofi Trifolium repe Vicia sp.	ratensis ficinale	5 3	X	FACU FAC (FAC)	FACU Species UPL Species Column Totals Prevalence Ind	ex =B/A = etation Indic	x 4 = x 5 = (A) #DIV	0 0 0 (E	3)
lerb Stratum (plot Alopecurus pi Taraxacum ofi Trifolium repe Vicia sp.	ratensis ficinale	5 3 2	X	FACU FAC (FAC)	FACU Species UPL Species Column Totals Prevalence Ind	ex =B/A = etation Indic 1- Rapid To	x 4 = x 5 = (A) #DIV	0 0 0 (E	3)
Alopecurus pi Taraxacum of Trifolium repe	ratensis ficinale	5 3	X = Total Cover	FACU FAC (FAC)	FACU Species UPL Species Column Totals Prevalence Ind	etation Indic 1- Rapid To 2- Dominar 3-Prevalen	x 4 = x 5 = (A) #DIV ators: est for Hydrophy nce Test is >50% ce Index is ≤ 3.0	0 0 (E	
lerb Stratum (plot Alopecurus pi Taraxacum of: Trifolium repe Vicia sp.	ratensis fficinale ens	5 3 2		FACU FAC (FAC)	FACU Species UPL Species Column Totals Prevalence Ind	etation Indic 1- Rapid To 2- Dominar 3-Prevalen 4-Morpholo	x 4 = x 5 = (A) #DIV ators: est for Hydrophy nce Test is >50% ce Index is ≤ 3.0 gical Adaptation	0 0 (E	
terb Stratum (plot Alopecurus pi Taraxacum ofi Trifolium repe Vicia sp.	ratensis ficinale	5 3 2		FACU FAC (FAC)	FACU Species UPL Species Column Totals Prevalence Ind	etation Indic 1- Rapid T 2- Dominar 3-Prevalen 4-Morpholo	x 4 = x 5 = (A) #DIV ators: est for Hydrophy nce Test is >50% ce Index is ≤ 3.0	0 0 (0) (0) (c) (d) (d) (d) (d) (d) (d) (e) (d) (e) (e) (e) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	

Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Yes X

No_

Hydrophytic Vegetation Present?

Remarks:

% Bare Ground in Herb Stratum

= Total Cover

^	$\overline{}$	

PHS#

6464

Sampling Point:

22

	Matrix	_			x Features		ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/1	100					Silty Clay Loam	Kemako
7-10	10YR 3/1	98	5YR 4/6	2	С	М	Silty Clay Loam	Fine
10-20	10YR 3/1	90	5YR 3/4	10		M	Silty Clay Loam	
							Only Clay Loan	Large
				····				
								
						·		V V V V V V V V V V V V V V V V V V V
	centration, D=Depletic							² Location: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Appli	cable to	all LRRs, unles	s otherwi	ise noted.)		Indica	tors for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redox	k (S5)		2 cm Muck (A10)
· · · · · · · · · · · · · · · · · · ·	Histic Epipedon (A2)				Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A3)				Loamy Muck	y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4))				d Matrix (F2)	,	Other (explain in Remarks)
	Depleted Below Dark	Surface (A	11)		Depleted Ma	` ,		- Carol (explain in Nemarks)
	Thick Dark Surface (A		•		Redox Dark	, ,		
	Sandy Mucky Mineral					k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix	` ,						hydrology must be present, unless disturbed or
					Redox Depre	ssions (F8)		problematic.
estrictive L	_ayer (if present):							
/pe:								
epth (inches):				-		Hydric Soil Prese	ent? Yes X No
								100 %
emarks:							1 ,	
YDROLO	GY Irology Indicators	3:						
	Irology Indicators		ired; check all th	at apply)				Secondary Indicators (2 or more required)
YDROLOG etland Hydrimary Indic			ired; check all tha		- Water stained	Leaves (B9) (Secondary Indicators (2 or more required)
YDROLOO etland Hydrimary Indic	Irology Indicators ators (minimum of Surface Water (A1)	one requ	ired; check all thi	V	Vater stained	Leaves (B9) (Water stained Leaves (B9)
YDROLOGETIAND HYDROGETIAND HYDR	irology Indicators ators (minimum of	one requ	ired; check all thi	۷ 1	l, 2, 4A, and	4B)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
YDROLOG etland Hyd imary Indio s F	irology Indicators ators (minimum of Burface Water (A1) ligh Water Table (A2)	one requ	ired; check all tha	V 1	i, 2, 4A, and Sait Crust (B1	4B) 1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
YDROLOG etland Hyd imary Indic s H	irology Indicators ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1)	one requ	ired; check all the	1 1 	I, 2, 4A, and Salt Crust (B1 Aquatic Invert	4B) 1) ebrates (B13)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOG etland Hyd imary Indic s H	ators (minimum of Gurface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1) dediment Deposits (B2)	one requ	ired; check all tha	V 1 	I, 2, 4A , and Sait Crust (B1 Aquatic Invert Hydrogen Sul	4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery
YDROLOG etland Hyd imary Indio s H S V	ators (minimum of Surface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B2) Drift Deposits (B3)	one requ	ired; check all thi	V 1 8 4 H	I, 2, 4A , and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz	4B) 1) ebrates (B13) fide Odor (C1) ospheres along	Except MLRA g Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2)
YDROLOG etland Hyd imary Indio s H S V	ators (minimum of Surface Water (A1) digh Water Table (A2) Saturation (A3) Vater Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	one requ	ired; check all tha	V 1 5 4 1 1	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F	4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C	Except MLRA g Living Roots (C3) C4)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOG retland Hyd rimary Indic S F S V	ators (minimum of Gurface Water (A1) digh Water Table (A2) daturation (A3) Vater Marks (B1) dediment Deposits (B2) drift Deposits (B3) dgal Mat or Crust (B4) on Deposits (B5)	one requ	ired; check all the	V 1 5 A H C F	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
YDROLOG letland Hyd rimary Indic S H S V S C A Ir	ators (minimum of Gurface Water (A1) digh Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) on Deposits (B5)	one requ 2)	-	1 5 4 1 6 7 7 8	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C) eduction in Plo essed Plants (I	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOGIC STATE OF THE PROPERTY OF THE PROPERT	ators (minimum of Gurface Water (A1) digh Water Table (A2) saturation (A3) Water Marks (B1) sediment Deposits (B2) or Deposits (B3) aurface Soil Cracks (B4) aundation Visible on A	one requi	- - - - ery (B7)	1 5 4 1 6 7 7 8	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
YDROLOGIC STATE OF THE PROPERTY OF THE PROPERT	ators (minimum of surface Water (A1) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) digal Mat or Crust (B4) on Deposits (B5) curface Soil Cracks (Ba) parsely Vegetated Co	one requi	- - - - ery (B7)	1 5 4 1 6 7 7 8	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C) eduction in Plo essed Plants (I	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hyd simary Indic s V s In Ir s eld Observ	ators (minimum of Surface Water (A1) digh Water Table (A2) daturation (A3) Vater Marks (B1) dediment Deposits (B2) drift Deposits (B3) dgal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B3) dundation Visible on A3 parsely Vegetated Co	one requi	- - - - ery (B7)	1 5 4 1 6 7 7 8	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C) eduction in Plo essed Plants (I	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG etland Hyd simary Indio S V S In S Ir S eld Observ	ators (minimum of Surface Water (A1) digh Water Table (A2) dighted Water Table (A2) dighted Water Marks (B1) dediment Deposits (B2) drift Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B dundation Visible on A parsely Vegetated Co ations:	one requi	ery (B7) face (B8)	1 5 4 1 6 7 7 8	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C) eduction in Plo essed Plants (I	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLOG Vetland Hyd rimary Indic S F S V In Ir S Ir S eld Observ rface Water F	ators (minimum of surface Water (A1) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B3) dundation Visible on Aparsely Vegetated Coations:	2) 6) Aerial Image	ery (B7) face (B8)	1 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (C) eduction in Plo essed Plants (I	Except MLRA g Living Roots (C3) C4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGICATION OF THE PROPERTY	ators (minimum of surface Water (A1) digh Water Table (A2) dight Water Table (A2) dight Water Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B dundation Visible on A parsely Vegetated Co ations: Present? Yes ent? Yes ent? Yes	one requ 2) 6) Aerial Image	ery (B7) face (B8)	I S S S C Depth (i	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dixidized Rhiz Presence of Recent Iron R Stunted or Str Other (Explair Inches): Inches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (Ceduction in Ploessed Plants (In in Remarks)	Except MLRA 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROLOGIC INTERPOLOGIC INTERPO	ators (minimum of Surface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B2) or Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes esent? Yes ent? Yes fringe)	2) 6) Aerial Image	ery (B7) face (B8) NoX No	Depth (i	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair nches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (Ceduction in Ploessed Plants (In in Remarks) 17 13	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Vetland Hyd rimary Indic S H S V I I I S I I S eld Observ urface Water F ater Table Presturation Press	ators (minimum of surface Water (A1) digh Water Table (A2) dight Water Table (A2) dight Water Marks (B1) dediment Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B dundation Visible on A parsely Vegetated Co ations: Present? Yes ent? Yes ent? Yes	2) 6) Aerial Image	ery (B7) face (B8) NoX No	Depth (i	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair nches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (Ceduction in Ploessed Plants (In in Remarks) 17 13	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG etland Hyd imary Indic S H S V In In S Ir S eld Observ rface Water F atter Table Pres turation Press ludes capillary	ators (minimum of Surface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B2) or Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes esent? Yes ent? Yes fringe)	2) 6) Aerial Image	ery (B7) face (B8) NoX No	Depth (i	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair nches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (Ceduction in Ploessed Plants (In in Remarks) 17 13	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Vetland Hyd rimary Indic S H S V S Ir S Ir S Leld Observ rface Water F ater Table Presturation Press	ators (minimum of Surface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B2) or Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) surface Soil Cracks (Baundation Visible on Aparsely Vegetated Coations: Present? Yes esent? Yes ent? Yes fringe)	2) 6) Aerial Image	ery (B7) face (B8) NoX No	Depth (i	I, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair nches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres along Reduced Iron (Ceduction in Ploessed Plants (In in Remarks) 17 13	Except MLRA g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Oa	ak Ridge Sı				ern Mountains				
		elopment, LLC	City/County:	MCM	linnville/Yamhill		ampling Date:	4/	17/2018
Investigator(s):						A		Sampling Poin	The second secon
		₹VJT		ownship, Range			Township 4S	, Range 4W	······································
Landform (hillslope, terra		Terra	ce	Local relief (co	oncave, convex, none):	None	Slope (%): 3
Subregion (LRR):		LRR A	Lat:	45.228	<u> 1916 </u>	Long:	23.211944	Datum	: WGS84
			Silty Clay Loam		N	WI Classificat	ion:	None	
Are climatic/hydrologic co					X	No	(if no, expla	in in Remarks))
Vre vegetation S		_			Are "Normal Circu			Y	_
re vegetation	Soil	or Hydrology	naturally proble	matic? If neede	d, explain any answer	s in Remarks.)		
SUMMARY OF FIN	DINGS -	Attach eita ma	n chausina cas		.1				
SUMMARY OF FIN Hydrophytic Vegetation Pi	resent? Y			npiing point	locations, trans	sects, imp	ortant featui	res, etc.	
lydric Soil Present?		,	10	is Sampled A	rea within				
•			4o	a Wetla	nd?	Yes X	N	o	_
Vetland Hydrology Prese	nt? Ye	es <u>X</u> N	10	1					
Remarks:									
EGETATION US									
EGETATION - Use	e scientini			la di a ta	1				
		absolute % cover	Dominant Species?	Indicator Status	Dominance Tes	t workshee	t:		
<u>ree Stratum</u> (plot size:)		****	Number of Domina	nt Species			
					That are OBL, FAC			3	(A)
2									_(, ,)
3					Total Number of Do	minant			
1					Species Across All	Strata:		3	(B)
		0	= Total Cover						
apling/Shrub Stratum	(plot size:)			Percent of Dominar	t Species			
					That are OBL, FAC	•	10	10%	(A/B)
									• (* /
3					Prevalence Inde	x Workshe	et:		· · · · · · · · · · · · · · · · · · ·
					Total % Cover of		Multiply by:		
,					OBL Species		x1=	0	
		0	= Total Cover		FACW species		x 2 =	0	_
erb Stratum (plot size:	5	,			FAC Species		x3=	0	•
Schedonorus arun		—_′ 40	v	540	FACU Species		× 4 =	0	•
Alopecurus praten		40	<u> </u>	FAC	UPL Species		x5=	0	
Agrostis capillaris		20		FAC	Column Totals	0	(A)	0	(B)
				FAC	Prevalence Inc	/a =D/A ==	#DI	1401	
				·····	Prevalence inc	iex =B/A =	#101	V/0!	•
					Hydrophytic Veg	etation Ind	icators:		
					, Janaphytio Veg		Test for Hydropl	hylic Venetatio	ın
					x		ance Test is >50		a.i
		100	= Total Cover			*********	ence Index is≤3		
							ological Adaptation		supporting
	ot size:)					emarks or on a s		
						5- Wetlar	nd Non-Vascular	Plants ¹	
							atic Hydrophytic '		
		0	= Total Cover		¹ Indicators of hydric	soil and wetlar	nd hydrology mu	st be present,	unless
					disturbed or problem	atic.			
Bare Ground in Herb Stra	atum	0			Hydrophytic Vegetation	Yα	s X	No	
							- ^	140	

Remarks:

PHS	#		

Cam	nlina	Point:
Saili	DIN IQ	COHIL.

22

Depth	Matrix	····			x Features		ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/2	95	7.5YR 5/8	5	<u>c</u>	PL	Silty Clay Loam	Large
2-7	10YR 3/1	90	7.5YR 5/8	10	C	М	Silty Clay Loam	Large
7-16	10YR 3/1	88	5YR 3/2	10	C	М	Silty Clay Loam	Large
7-16			5YR 5/6	2	C	M	Silty Clay Loam	Medium
			- A				THE CASE OF THE CA	100000000000000000000000000000000000000
¹ Type: C=Conc	entration, D=Depletio	n, RM=Re	duced Matrix, CS=C	overed or	Coated San	d Grains.		² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applic						Indica	ators for Problematic Hydric Soils ³ :
	distosol (A1)				Sandy Redox			2 cm Muck (A10)
	listic Epipedon (A2)		-		Stripped Matr			Red Parent Material (TF2)
E	Black Histic (A3)		_			` ,	(except MLRA 1)	Very Shallow Dark Surface (TF12)
	lydrogen Sulfide (A4)		-			d Matrix (F2)	,	Other (explain in Remarks)
	Depleted Below Dark \$.11)		Depleted Mat	` ′		Ottlet (explain in Nemano)
	hick Dark Surface (A		_		Redox Dark S			
	Sandy Mucky Mineral (•	_			k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix (Redox Depre			hydrology must be present, unless disturbed or
	ayer (if present):				TOBOX = -	3310110 (1 -)	1	problematic.
	ayer (ii proocii.,							
Type: Depth (inches):					•			
							Hydric Soil Pres	ent? Yes X No
	·v							
	rology Indicators							
HYDROLOG Wetland Hydi Primary Indica	rology Indicators: ators (minimum of o		ired; check all that					Secondary Indicators (2 or more required)
HYDROLOG Wetland Hydro Primary Indica	rology Indicators ators (minimum of our arface Water (A1)		ired; check all that	V			Except MLRA	Water stained Leaves (B9)
HYDROLOG Wetland Hydi Primary Indica Si X Hi	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2)		ired; check all that	V	Vater stained , 2, 4A, and		Except MLRA	
HYDROLOG Wetland Hydi Primary Indica Si X Hi X Sa	rology Indicators ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3)		ired; check all that		, 2, 4A , and a	4B) 1)	Except MLRA	Water stained Leaves (B9)
HYDROLOG Wetland Hydr Primary Indica St X Hi X Sa	rology Indicators ators (minimum of our face Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1)	one requi	ired; check all that		, 2, 4A , and a salt Crust (B1 aquatic Invert	4B) 1) ebrates (B13)	•	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) fater Marks (B1) ediment Deposits (B2)	one requi	ired; check all that	M 1, S A H	, 2, 4A, and death Crust (B1 Equatic Inverted Lydrogen Sulf	4B) 1) ebrates (B13) fide Odor (C1)	·	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Se	rology Indicators: ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3)	one requi	ired; check all that	X 0	, 2, 4A, and salt Crust (B1 quatic Inverte lydrogen Sult exidized Rhize	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon	g Living Roots (C3)	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)
HYDROLOG Wetland Hydi Primary Indica Si X Hi X Sa W Se Dr	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4)	one requi	ired; check all that	X O	, 2, 4A, and a saft Crust (B1 equatic Inverte lydrogen Sult exidized Rhize resence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon leduced Iron (6	g Living Roots (C3) C4)	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)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Se Dr Ale	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	one requi	ired; check all that	X O	, 2, 4A, and a salt Crust (B1 quatic Inverte lydrogen Sult exidized Rhize resence of R	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Pla	g Living Roots (C3) C4) owed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Carrier Community Communi
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Sa Dr Ala	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6)	one requi		X O P:	, 2, 4A, and a dalt Crust (B1 equatic Inverted lydrogen Sult exidized Rhize resence of Recent Iron Rec	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Places alon) essed Plants (g Living Roots (C3) C4) owed Soils (C6)	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)
HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	one requi	ery (B7)	X O P:	, 2, 4A, and a dalt Crust (B1 equatic Inverted lydrogen Sult exidized Rhize resence of Recent Iron Rec	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Pla	g Living Roots (C3) C4) owed Soils (C6)	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)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Sa Dr Al Iro Su Int Sp	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) //ater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Actual Coarsely Vegetated Coarsely Vegetated Coarsely	one requi	ery (B7)	X O P:	, 2, 4A, and a dalt Crust (B1 equatic Inverted lydrogen Sult exidized Rhize resence of Recent Iron Rec	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Places alon) essed Plants (g Living Roots (C3) C4) owed Soils (C6)	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)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Sa Dr Ale Ire Su Inte	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) // ater Marks (B1) ediment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Actorsely Vegetated Contations:	one requi	ery (B7)	X 00 PR SS	, 2, 4A, and a salt Crust (B1 aquatic Inverted by Arguer Sult Brown Research Iron Research Brown Strutter (Explain	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Places alon) essed Plants (g Living Roots (C3) C4) owed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOG Wetland Hydi Primary Indica Si X Hi X Sa W Se Dr Al Irc Su Inc	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Acorasely Vegetated Colations: resent? Yes	one requi	ery (B7) face (B8)	W 1, S A A H X O PP R S S O Depth (ir	, 2, 4A, and a salt Crust (B1 aquatic Inverted by Arrogen Sult	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon teduced Iron (teduction in Places Plants (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 (Caracteristics) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydr Primary Indica St X Hi X Sa W Se Dr Irc St Int Sp Field Observa Surface Water Pres	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Actions: ations: resent? Yes atoric (minimum of ourface (A1) ight (A2) ight (A2) ight (A2) ight (A2) ight (A3) ight (A3	one requi	ery (B7) face (B8)	William Signature American Ame	, 2, 4A, and a salt Crust (B1 aquatic Inverte lydrogen Sult available of Rhizeresence of Recent Iron Retunted or Stretther (Explain anches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Places 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 (C Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Includes capillary fr	rology Indicators: ators (minimum of curface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 oundation Visible on Accorasely Vegetated Contactions: resent? Yes ent? Yes ent? Yes ent? Yes ent? Yes	one requi	ery (B7) face (B8) No No	VIII S A H X O PI R SI O Depth (ir	, 2, 4A, and a salt Crust (B1 aquatic Inverte lydrogen Sult oxidized Rhiza resence of Recent Iron Ratunted or Strather (Explain anches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Placessed Plants (In in Remarks) 10 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydr	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Includes capillary fr	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 undation Visible on Accorasely Vegetated Contactions: resent? Yes ent? Yes	one requi	ery (B7) face (B8) No No	VIII S A H X O PI R SI O Depth (ir	, 2, 4A, and a salt Crust (B1 aquatic Inverte lydrogen Sult oxidized Rhiza resence of Recent Iron Ratunted or Strather (Explain anches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Placessed Plants (In in Remarks) 10 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydr	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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HYDROLOG Wetland Hydi Primary Indica St X Hi X Sa W Sa Dr Ala Inc Sp Field Observa Surface Water Press Saturation Prese Includes capillary fr	rology Indicators: ators (minimum of curface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6 oundation Visible on Accorasely Vegetated Contactions: resent? Yes ent? Yes ent? Yes ent? Yes ent? Yes	one requi	ery (B7) face (B8) No No	VIII S A H X O PI R SI O Depth (ir	, 2, 4A, and a salt Crust (B1 aquatic Inverte lydrogen Sult oxidized Rhiza resence of Recent Iron Ratunted or Strather (Explain anches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Geduction in Placessed Plants (In in Remarks) 10 0	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hydr	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOG Wetland Hydr Primary Indica X Hi X Sa W Sa Dr Alg Irc Su Int Sp Field Observa Surface Water Prese Suturation Prese Includes capillary fr Describe Record	ators (minimum of ourface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B6) undation Visible on Account (B4) constant (B6) ations: resent? Yes sent? Yes ringe) ried Data (stream gauge	one requi	ery (B7) face (B8) No X No N	William S A A H X O Property Control of the Control	, 2, 4A, and a salt Crust (B1 aquatic Inverted lydrogen Sult backers of R accent Iron Retunted or Struther (Explain anches):	4B) 1) ebrates (B13) fide Odor (C1) ospheres alon deduced Iron (Ceduction in Places Plants (Central in Remarks) 10 0	g Living Roots (C3) C4) wed Soils (C6) D1) (LRR A) Wetland Hydro	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

	WETLAND	DETER	RMINATIO	N DATA FO	RM - West	ern Mounta	ins, Vall	eys, a	nd Coa	PHS# st Region	6464
Project/Site:	Oak Ridge	Subdivis	ion	City/County:	McM	innville/Yamł	nill	Sam	pling Date:	4/1	7/2018
Applicant/Owner:	Premier D	evelopme	nt, LLC				State:	OR	_	Sampling Poin	: 34
Investigator(s):	- Calebra and Cale	CR/JT		Section, To	wnship, Range:		Section	17, To	- wnship 4	S, Range 4W	
Landform (hillslope	e, terrace, etc.:)	1	Berm		Local relief (co	oncave, convex,		1,00000	ncave	Slope (%)	: 2
Subregion (LRR):	**************************************	LRR A		Lat:	45.228	916	Long: _	-123	.211944	Datum	
Soil Map Unit Nam	e:		Waldo Si	ilty Clay Loam			NWI Clas			None	
Are climatic/hydrole	ogic conditions o	n the site ty	pical for this ti	me of year?	Yes	X	No		(if no. exp	lain in Remarks)	
Are vegetation	Soil	or Hyd	Irology	_significantly dist	urbed?	Are "Normal	-		-		
Are vegetation	Soil	or Hyd		naturally proble					(,		-
CHAMADY OF	FENDINGS										
SUMMARY OI Hydrophytic Vegeta		<u> </u>			npling point	locations, t	ransects,	impor	ant feat	ures, etc.	····
Hydric Soil Present			X No		is Sampled A	rea within					
•		Yes	X No		a Wetla	nd?	Yes	<u> </u>	•	No	_
Wetland Hydrology	Present?	Yes	X No								
Remarks:											
ı											
VEGETATION	- Use scient	lific nam	es of plant	ls.			· · · · · · · · · · · · · · · · · · ·				
			absolute	Dominant	Indicator	Dominance	Test work	sheet:			
Tree Stratum (pl	at aire.	ͺ -	% cover	Species?	Status						
11ee Stratum (pr	ot size;	······)				Number of Do	•				
2						That are OBL,	FACW, or FA	AC:		2	-(A)
3						Tatalati					
4						Total Number				•	(D)
			0	= Total Cover		Species Acros	s Ali Strata:			2	(B)
Sapling/Shrub Strat	<u>um</u> (plot size:	-	\								
1	MILL (PIOT SIZE.		,			Percent of Dor				4000/	(4(5)
2						That are OBL,	FACVV, or F.	AC:		100%	(A/B)
3						Prevalence	Index Mor	kehoot:			
4						Total % Cover			Multiply by		
5						OBL Spe		,	x1=	0	
			0	= Total Cover		FACWsp	_		x 2 =	0	•
		_				FAC Spe			x 3 =	0	•
)				FACU Sp	ecies		x 4 =	0	
1 Alopecurus			80	<u>X</u>	FAC	UPL Spe	cies	٠	x 5 =	0	•
2 Trifolium rep			20	X	FAC	Column T	otals	0	(A)	0	(B)
3 Rumex crisp 4	us	-	5		FAC	_		_			
5						Prevalen	ce Index =B//	≒ .	#	DIV/0!	
6						I to advanta	. 1.6 4.1				
7						Hydrophytic	-			ambadic Maria	_
8	 									ophytic Vegetatio	n
			105	= Total Cover					ce Test is > e Index is :		
		_								s 3.0 ations ¹ (provide s	supporting
Noody Vine Stratum	<u>ı</u> (plot size:)				•			•	a separate shee	
1							5-	Wetland	Non-Vascu	lar Plants ¹	
2							Pro	blematic	Hydrophyt	ic Vegetation¹ (E	xplain)
			0	= Total Cover	_	111-11-1-1				nust be present,	

Hydrophytic Vegetation Present?

No_

% Bare Ground in Herb Stratum

Remarks:

P	HS	#	

Sampling Point:

3/

Depth	Matrix				k Features	une uboci	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Domantia
0-6	10YR 3/2	92	7.5YR 4/6	5	С	M		Remarks
0-6			7.5YR 4/6	3		and the second s	Silty Clay	Common/Fine/Distinct
6-18	5Y 4/1	90	7.5YR 3/4			PL_	Silty Clay	Fine; gravel
	014/1		7.51K 3/4	10	<u> </u>	M	Silty Clay	Common/Medium/Prominent
			P					
ype: C=Conc	entration, D=Depletion	on, RM=Re	duced Matrix, CS=0	Covered or	Coated San	d Grains.	**************************************	² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Appli						Indic	ators for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redox			2 cm Muck (A10)
{	Histic Epipedon (A2)		•		Stripped Mate	• •		Red Parent Material (TF2)
E	Black Histic (A3)		•			y Mineral (F1) (e	vcent MI PA 1)	
	lydrogen Sulfide (A4	`	•				socept menor 1)	Very Shallow Dark Surface (TF12)
	Depleted Below Dark	,	-			d Matrix (F2)		Other (explain in Remarks)
			· · · · · · -		Depleted Mat	` '		
	hick Dark Surface (A	,	-		Redox Dark S			3
	Sandy Mucky Mineral		-		Depleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
S	Sandy Gleyed Matrix	(S4)	-	F	Redox Depre	ssions (F8)		problematic.
strictive L	.ayer (if present):							
pe:								
pth (inches)	:						Undet - Oction	
,							Hydric Soil Pres	ent? Yes X No
marks:								
/DROLO(3Y rology Indicators	s:						
PROLOC	rology Indicators		red' check all the	ot applied				
∕DROLO(etland Hyd mary Indica	rology Indicators ators (minimum of		red; check all tha					
'DROLOG etland Hyd mary Indica	rology Indicators ators (minimum of urface Water (A1)	one requi	red; check all tha	W		Leaves (B9) (E		Water stained Leaves (B9)
/DROLOGetland Hydemary Indica	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2)	one requi	red; check all tha		, 2, 4A, and	Leaves (B9) (E 4B)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
/DROLOG etland Hyd mary Indica s H X S	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3)	one requi	red; check all tha		, 2, 4A, and alt Crust (B1	Leaves (B9) (E 4B) 1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
'DROLOG etland Hyd mary Indica S H X S	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1)	one requi	red; check all tha - - -	M 1, S A	, 2, 4A, and alt Crust (B1 quatic Invert	Leaves (B9) (E 4B) 1) ebrates (B13)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
/DROLOGetland Hydrogetland Hydrogetland Hydrogetland Section 1	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2)	one requi	red; check all tha	М 1, А А	, 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sull	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery
YDROLOG etland Hyd mary Indica S H X S W S	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2 rift Deposits (B3)	one requi	red; check all tha	X H	, 2, 4A, and alt Crust (B1 quatic Inverte ydrogen Sult xidized Rhiz	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along	Except MLRA Living Roots (C3)	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)
/DROLOG etland Hyd mary Indica S H X S W SI A	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) igal Mat or Crust (B4)	one requi	red; check all tha	X H X O	, 2, 4A, and alt Crust (B1 quatic Inverted ydrogen Sulf xidized Rhizeresence of R	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C-	Except MLRA Living Roots (C3)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery
/DROLOG etland Hyd mary Indica S H X S W S D Al	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5)	one requi	red; check all tha	X H X O PI	alt Crust (B1 quatic Inverting ydrogen Sulf xidized Rhizeresence of Recent Iron Recent	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along leduced Iron (Coeduction in Ploy	Except MLRA Living Roots (C3) 4) wed Soils (C6)	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)
'DROLOG etland Hyd mary Indica S H X S W S D Al	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B	one requi	- - - - -	X H X O PI	alt Crust (B1 quatic Inverting ydrogen Sulf xidized Rhizeresence of Recent Iron Recent	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along educed Iron (C-	Except MLRA Living Roots (C3) 4) wed Soils (C6)	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)
TDROLOG etland Hyd mary Indica S H X S U S In In	rology Indicators ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B2) rift Deposits (B3) gal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (B undation Visible on A	one requi	- - - - ery (B7)	X H X O PI R SI	alt Crust (B1 quatic Inverting ydrogen Sulf xidized Rhizi resence of Recent Iron Retunted or Strutter	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along leduced Iron (Coeduction in Ploy	Except MLRA Living Roots (C3) 4) wed Soils (C6)	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)
/DROLOG etland Hyd mary Indica S H X S U S In In S S	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Aparsely Vegetated Co	one requi	- - - - ery (B7)	X H X O PI R SI	alt Crust (B1 quatic Inverting ydrogen Sulf xidized Rhizi resence of Recent Iron Retunted or Strutter	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4) eduction in Plow essed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6)	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)
/DROLOG etland Hyd mary Indica S H X S U S In In S S	ators (minimum of urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (Bundation Visible on Aparsely Vegetated Co	one requi	- - - - ery (B7)	X H X O PI R SI	alt Crust (B1 quatic Inverting ydrogen Sulf xidized Rhizi resence of Recent Iron Retunted or Strutter	Leaves (B9) (E 4B) 1) ebrates (B13) fide Odor (C1) ospheres along reduced Iron (C4) eduction in Plow essed Plants (D	Except MLRA Living Roots (C3) 4) wed Soils (C6)	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)
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Coast	PHS #	6464	
	4/*	17/2018	
		35	
	, Range 4W		
	Slope (%)		
944		: WGS84	
	None		
, expla	in in Remarks)		
/N)	Υ		
faatiu	res, etc.		
catul	, Elu.	anuni	
N	io X		
.,	<u> </u>	-	
			i
	2	(A)	
		• '	
	2	(B)	
			1
10	00%	(A/B)	
			4
ly by:			-
1y by. 1 ≃	- 0		1
2 =	0	•	
3 =	0		
4 =	0	ı	
5=	0	·	
	0	(B)	
#DI	V/01		
וטיי	7701		
			┨
Hydropl	hytic Vegetatio	n	
it is >50	0%		
x is≤3	1.0 ¹		

Project/Site: Oak Ridge Subdivision					, ,	, ,		gion	
-	<u> </u>		City/County: McMinnv		linnville/Yamhill	Sampl	ing Date:	4/17/2018	
Applicant/Owner:	Premier Development, LLC				State	e: OR	Samp	ling Point:	35
Investigator(s):	The second secon	R/JT	Section, To	wnship, Range	Sect	ion 17, Tow	nship 4S, Rar	nge 4W	
Landform (hillslope, t	errace, etc.:)	Berm		Local relief (co	oncave, convex, none):	Co	nvex	Slope (%):	2
Subregion (LRR):		LRR A	Lat:	45.228	1 916 Long	g: - 123. 2	211944	Datum:	WGS84
Soil Map Unit Name:		Waldo S	ilty Clay Loam		NWI C	Classification:		None	
Are climatic/hydrolog	ic conditions on th	ne site typical for this ti	me of year?	Yes		-	(if no, explain in I	Remarks)	
Are vegetation	Soil	or Hydrology	significantly dist	urbed?	Are "Normal Circumsta	the state of the later of the l		Υ	
Are vegetation	Soil	or Hydrology	— naturally probler	matic? If neede	d, explain any answers in i				•
SUMMARY OF	FINDINGS -	Attach site map	showing san	pling point	locations, transect	ts, importa	nt features,	etc.	
Hydrophytic Vegetation	on Present? You	es X No		is Sampled A	was wilded				
Hydric Soil Present?	Y	esNo	X	a Wetla	rea within nd? Ye:	s_	No	x	
Wetland Hydrology P	resent? Ye	es No	X						•
Remarks:	*			<u> </u>					
VEGETATION -	Use scientifi	c names of plan	ts.				A CONTRACTOR OF THE PARTY OF TH		5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		absolute	Dominant	Indicator	Dominance Test wo	orksheet:			
Free Stratum (plot	oizo:	<u>% cover</u>	Species?	Status					
1	size:)			Number of Dominant Sp	ecies			
2					That are OBL, FACW, o	r FAC:	2		(A)
3									
4					Total Number of Domina				
		0	7.10		Species Across All Strat	a:	2		(B)
			= Total Cover						
Sapling/Shrub Stratun	1 (plot size:)			Percent of Dominant Spo	ecies			
1					That are OBL, FACW, o	or FAC:	100%		(A/B)
2									
3					Prevalence Index W	orksheet:			
4					Total % Cover of	_ <u> </u>	lultiply by:		
5					OBL Species		x1=	0	
		0	≂ Total Cover		FACW species		x 2 =	0	
lerb Stratum (plot s	size: 5	١			FAC Species		x 3 =	0	
1 Alopecurus pr		' 60	х	EAC	FACU Species		x 4 =	0	
2 Trifolium reper	The second secon	40	<u> </u>	FAC FAC	UPL Species		x5=	0	
3 Hypochaeris ra		15		FACU	Column Totals	0 (4	1)	0 (B)
4		- HO		TAGO	Prevalence Index =	-D/A	#DIV/01		
5					r revalence index -	-D/A -	#DIV/01		
6					Hydrophytic Vegeta	tion Indicat	0.00		
7				·	inydrophytic vegeta				
8					x		for Hydrophytic	vegetation	ı
		115	= Total Cover			2- Dominance 3-Prevalence	Test is >50%		
							al Adaptations ¹ (provide su	ıpportina
Voody Vine Stratum	(plot size:)					rks or on a separ		
1					1		n-Vascular Plan	,	
2							lydrophytic Vege		plain)
		0	= Total Cover		¹ Indicators of hydric soil a				
					disturbed or problematic.	,		, -,	
6 Bare Ground in Herb	Stratum	0			Hydrophytic	V .	v		
		-			Vegetation	Yes	Х	No	

Remarks:

PHS	#	

Sampling Point:

•	Matrix				Features	iiiiii iiic absei	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 3/3	97					Silty Clay	Mixed matrix
0-18	10YR 4/4	3	-				Silty Clay	Mixed matrix
Miles - Parker - Parker	-							
	- Committee of the Comm							CONTRACTOR OF THE CONTRACTOR O
				_				
¹ Type: C=Cond	centration, D=Depletio	n, RM=Re	educed Matrix, CS=	Covered or C	Coated Sand	d Grains.		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Applic						Indic	ators for Problematic Hydric Soils ³ :
	Histosol (A1)			Sa	andy Redox	(S5)		2 cm Muck (A10)
<u> </u>	Histic Epipedon (A2)			St	tripped Matr	íx (S6)		Red Parent Material (TF2)
	Black Histic (A3)			Lo	oamy Mucky	Mineral (F1) (e	except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4)					d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark S	Surface (A	11)	De	epleted Mati	rix (F3)		
	Thick Dark Surface (A	12)		Re	edox Dark S	urface (F6)		
	Sandy Mucky Mineral ((S1)		De	epleted Darl	Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Gleyed Matrix (S4)	,	Re	edox Depres	ssions (F8)		hydrology must be present, unless disturbed or problematic.
Restrictive L	_ayer (if present):					· · · · · ·		
Туре:	,							
Depth (inches)):						Hudria Cail Dua	Nam40 Was
Remarks:	·						Hydric Soil Pres	sent? Yes NoX
HYDROLO								
	GY Irology Indicators							
Wetland Hyd			ired; check all tha	at apply)				Secondary Indicators (2 or more required)
Wetland Hy d Primary Indic	Irology Indicators		ired; check all the		ater stained	Leaves (B9) (E	Except MLRA	Secondary Indicators (2 or more required) Water stained Leaves (B9)
Wetland Hyd Primary Indic	Irology Indicators ators (minimum of o		ired; check all tha	Wa	ater stained 2, 4A, and 4		Except MLRA	
Wetland Hyd Primary Indic s - - S	ators (minimum of o surface Water (A1) digh Water Table (A2) saturation (A3)		ired; check all the	Wa 1,		1B)	Except MLRA	Water stained Leaves (B9)
Wetland Hyd Primary Indic S H S V	ators (minimum of of ourface Water (A1) digh Water Table (A2) disturation (A3) Vater Marks (B1)	one requ	ired; check all tha	Wa 1, Sa Aq	2, 4A, and 4 alt Crust (B1) quatic Inverte	1B) 1) ebrates (B13)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Wetland Hyd Primary Indic S F S V	ators (minimum of a Burface Water (A1) digh Water Table (A2) Baturation (A3) Vater Marks (B1) Rediment Deposits (B2	one requ	ired; check all tha	Wa 1, Sa Aq Hy	2, 4A, and 4 alt Crust (B1 puatic Inverted rdrogen Sulf	1B) 1) bbrates (B13) ide Odor (C1)		Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
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Wetland Hyd Primary Indic S F S V S C A	ators (minimum of of of other control of	one requ	ired; check all tha	Wa 1, Sa Aq Hy Ox Pre	2, 4A, and 4 alt Crust (B1 quatic Inverte drogen Sulf didized Rhize esence of Recent Iron Re	4B) brates (B13) ide Odor (C1) bspheres along educed Iron (Coduction in Ploy	Living Roots (C3) 4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Wetland Hyde Primary Indic S H S V S C A Ir	ators (minimum of a Burface Water (A1) digh Water Table (A2) Baturation (A3) Vater Marks (B1) Bediment Deposits (B2) Drift Deposits (B3) Jal Mat or Crust (B4) on Deposits (B5)	one requ	- - - -	Wa 1, Sa Aq Hy Ox Pre Re	2, 4A, and 4 ult Crust (B1 uuatic Inverte drogen Sulf dridized Rhizo esence of Re cent Iron Re unted or Stre	AB) abrates (B13) de Odor (C1) aspheres along educed Iron (Country) eduction in Ploy essed Plants (D	Living Roots (C3) 4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydese Primary Indices Primary Indices Primary Indices Primary Indices Substitute Subst	ators (minimum of o Surface Water (A1) digh Water Table (A2) disturation (A3) Vater Marks (B1) dediment Deposits (B2) drift Deposits (B3) dgal Mat or Crust (B4) don Deposits (B5) durface Soil Cracks (B6)	one requ)) erial Image	- - - - ery (B7)	Wa 1, Sa Aq Hy Ox Pre Re	2, 4A, and 4 ult Crust (B1 uuatic Inverte drogen Sulf dridized Rhizo esence of Re cent Iron Re unted or Stre	4B) brates (B13) ide Odor (C1) bspheres along educed Iron (Coduction in Ploy	Living Roots (C3) 4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Wetland Hyde Primary Indic S H S V S C A Ir S Ir S	ators (minimum of of Surface Water (A1) digh Water Table (A2) saturation (A3) Vater Marks (B1) sediment Deposits (B2) on Deposits (B3) durface Soil Cracks (B6) nundation Visible on Aparsely Vegetated Comparsely Vegetated Comparsely Vegetated Comparsely (A1)	one requ)) erial Image	- - - - ery (B7)	Wa 1, Sa Aq Hy Ox Pre Re	2, 4A, and 4 ult Crust (B1 uuatic Inverte drogen Sulf dridized Rhizo esence of Re cent Iron Re unted or Stre	AB) abrates (B13) de Odor (C1) aspheres along educed Iron (Country) eduction in Ploy essed Plants (D	Living Roots (C3) 4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary Indic S H S V S In In S Ir S Field Observ	ators (minimum of oburface Water (A1) digh Water Table (A2) disturation (A3) Vater Marks (B1) dediment Deposits (B2) dight Deposits (B3) dight Or Crust (B4) don Deposits (B5) durface Soil Cracks (B6) dundation Visible on Au parsely Vegetated Co	one requ)) erial Image	ery (B7)	Wa 1, Sa Aq Hy Ox Pre Re Stu	2, 4A, and 4 ult Crust (B1 uuatic Inverte drogen Sulf didized Rhizo esence of R ecent Iron Re unted or Stre her (Explain	AB) abrates (B13) de Odor (C1) aspheres along educed Iron (Country) eduction in Ploy essed Plants (D	Living Roots (C3) 4) wed Soils (C6)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary Indic S S V S A Ir S Ir S Field Observ Surface Water F	ators (minimum of oburface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B6)	one requ)) erial Image	ery (B7) face (B8)	Wa 1, Sa Aq Hy Ox Pre Stu Oti	2, 4A, and 4 ilt Crust (B1 juatic Inverte drogen Sulf didized Rhize esence of Ri cent Iron Re junted or Stre her (Explain	4B) 1) berates (B13) ide Odor (C1) bespheres along educed Iron (C- eduction in Plov essed Plants (C- in Remarks)	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic S Field Observ Surface Water F Water Table Pre	ators (minimum of estrates (Minimum of estrates (Minimum of estrates (Mater (A1)) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B6)	one requ)) erial Image	ery (B7) face (B8) No X No X	Wa 1, Sa Aq Hy Ox Pre Re Stu Oti	2, 4A, and 4 lit Crust (B1 juatic Inverte drogen Sulf didized Rhize esence of Recent Iron Re unted or Stre her (Explain	4B) 1) betrates (B13) ide Odor (C1) ospheres along educed Iron (Coduction in Plovessed Plants (Codur in Remarks)	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic S S V S A Ir S Ir S Field Observ Surface Water F	ators (minimum of oburface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B6)	one requ)) erial Image	ery (B7) face (B8)	Wa 1, Sa Aq Hy Ox Pre Stu Oti	2, 4A, and 4 lit Crust (B1 juatic Inverte drogen Sulf didized Rhize esence of Recent Iron Re unted or Stre her (Explain	4B) 1) berates (B13) ide Odor (C1) bespheres along educed Iron (C- eduction in Plov essed Plants (C- in Remarks)	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic S Frimary Indic S V S C A Ir S Ir S Field Observ Surface Water F Water Table Pres Saturation Press Includes capillary	ators (minimum of oburface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) don Deposits (B5) durface Soil Cracks (B6)	one requiposition (5) Silverial Imagence Sur	ery (B7) face (B8) NoX NoX	Wat 1, Sa Aq Hy Ox Pre Stu Ott	2, 4A, and 4 ult Crust (B1 quatic Inverte drogen Sulf didized Rhize esence of Re ecent Iron Re unted or Stre her (Explain	4B) 1) ebrates (B13) ide Odor (C1) espheres along educed Iron (Coeduction in Plov essed Plants (D in Remarks) >18 >18	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic S Frimary Indic S V S C A Ir S Ir S Field Observ Surface Water F Water Table Pres Saturation Press Includes capillary	ators (minimum of oburface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) on Deposits (B5) durface Soil Cracks (B6)	one requiposition (5) Silverial Imagence Sur	ery (B7) face (B8) NoX NoX	Wat 1, Sa Aq Hy Ox Pre Stu Ott	2, 4A, and 4 ult Crust (B1 quatic Inverte drogen Sulf didized Rhize esence of Re ecent Iron Re unted or Stre her (Explain	4B) 1) ebrates (B13) ide Odor (C1) espheres along educed Iron (Coeduction in Plov essed Plants (D in Remarks) >18 >18	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic S Frimary Indic S V S C A Ir S Ir S Field Observ Surface Water F Water Table Pres Saturation Press Includes capillary	ators (minimum of oburface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) don Deposits (B5) durface Soil Cracks (B6)	one requiposition (5) Silverial Imagence Sur	ery (B7) face (B8) NoX NoX	Wat 1, Sa Aq Hy Ox Pre Stu Ott	2, 4A, and 4 ult Crust (B1 quatic Inverte drogen Sulf didized Rhize esence of Re ecent Iron Re unted or Stre her (Explain	4B) 1) ebrates (B13) ide Odor (C1) espheres along educed Iron (Coeduction in Plov essed Plants (D in Remarks) >18 >18	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary Indic S Frimary Indic S V S C A Ir S Ir S Field Observ Surface Water F Water Table Pres Saturation Press Includes capillary	ators (minimum of oburface Water (A1) digh Water Table (A2) digh Water Table (A2) digh Water Marks (B1) dediment Deposits (B2) diff Deposits (B3) digal Mat or Crust (B4) don Deposits (B5) durface Soil Cracks (B6)	one requiposition (5) Silverial Imagence Sur	ery (B7) face (B8) NoX NoX	Wat 1, Sa Aq Hy Ox Pre Stu Ott	2, 4A, and 4 ult Crust (B1 quatic Inverte drogen Sulf didized Rhize esence of Re ecent Iron Re unted or Stre her (Explain	4B) 1) ebrates (B13) ide Odor (C1) espheres along educed Iron (Coeduction in Plov essed Plants (D in Remarks) >18 >18	Living Roots (C3) 4) wed Soils (C6) 01) (LRR A)	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

PHS #

6464

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

Project/Site:	Oak Ridge	e Subdi	vision	_	City/County:	McM	innville/Yamhill		Samr	pling Date:	4	/17/2018
Applicant/Owner:	Premier D	evelop	ment, LLC					State:	-	ли. ₉ с.	Sampling Poi	
Investigator(s):		CR/JT			Section, To	ownship, Range:		_		- wnship 4	S, Range 4W	100 Carlos Carlo
Landform (hillslope, to	errace, etc.:)		Slc	оре		Local relief (cc	oncave, convex, none	-		Vone	الكانتين والتسمين الماريد	
Subregion (LRR):		LRR	ί A		Lat:	45.228	3916	Long:			Datur	
Soil Map Unit Name:					ty Clay Loam			WI Classif	ification:		— None	
Are climatic/hydrologi					-	Yes	x				lain in Remarks	s)
Are vegetation					significantly dist			umstances'	s" presen	-		,
Are vegetation	_ Soil	or h	Hydrology		naturally probler	matic? If needer	d, explain any answe	rs in Rema	arks.)			ANGEN
SUMMARY OF I	FINDINGS	– Attr	ach site m	ıan s	howing san	anlina naint	·looptions tran	ate i			4-	
Hydrophytic Vegetatio		Yes						5eus,	mporc	antieau	ires, etc.	
Hydric Soil Present?		Yes	X			Is Sampled Ar	rea within	Yes	v			
Wetland Hydrology Pr		Yes				a Wetlar	nd?	168	^	•	No	
Remarks:		•		'''								
1												
					· ·							
VEGETATION -	Use scien	tific na										
			absolute % cove		Dominant Species?	Indicator Status	Dominance Tes	t works!	heet:			
Tree Stratum (plot s	size:)	<u>'</u> -	ореосо.	Giaido	Number of Domina	ent Species	۹.			
1			-				That are OBL, FAC				2	(A)
2			-						•			- 17
3							Total Number of Do	ominant				
4							Species Across All	Strata:		· · · · · · · · · · · · · · · · · · ·	2	_(B)
			0	_ =	= Total Cover							
Sapling/Shrub Stratum	n (plot size	:					Percent of Dominar	•				
1							That are OBL, FAC	W, or FAC	c: -	1	100%	_(A/B)
3							D	**! aule	4.			
4							Prevalence Inde	∍x Works		s a lating by		
5					-		OBL Species		_	Multiply by: x 1 =	<u>:</u> 0	
		-	0	_ =	= Total Cover		FACW species			x 2 =	0	-
(plot)		_					FAC Species			x 3 =	0	-
<u>Herb Stratum</u> (plot s 1 Alopecurus pr a		5)	10		V	=10	FACU Species			x 4 =	0	_
2 Schedonorus a			30		<u>x</u>	FAC FAC	UPL Species			x5=	0	-
3 Trifolium repen		73	20			FAC	Column Totals		0 ((A)	0	_ ^(B)
4 Holcus lanatus	\$		20			FAC	Prevalence in	idex =B/A	=	#1	DIV/0!	
5												
6							Hydrophytic Ve	getation	Indica	tors:		
7 8											phytic Vegetati	ion
8			110		- 10		X			ce Test is >		
			110		Total Cover	ı	-			e Index is≤ gical Adapta	i 3.0¹ ations¹ (provide	emporting
Noody Vine Stratum	(plot size:)			ĺ	-				a separate she	
1						-				Non-Vascula		^,
2											ic Vegetation ¹ (I	
			0	=	Total Cover	- :·	¹ Indicators of hydric	soil and w				
							disturbed or problem Hydrophytic	natic.				
6 Bare Ground in Herb	o Stratum		0				Vegetation		Yes_	Х	No	
Remarks:						·	Present?				_	

D	пe	#
~	HS	

		n
Sam	pling	Point:

20

Profile Descri		e to the dept	h needed to docum			nfirm the abse	ence of indicators.)	
(Inches)	Color (mois		Color (moist)		x Features Type ¹	Loc ²	Ta. 4	. .
0-18	5Y 4/1	87	10YR 4/8	10	C		Texture	Remarks
0-18			5YR 4/6	3		M	Silty Clay	Gravel/Rock/Medium
			31K 4/6		<u> </u>	PL_	Silty Clay	Ors, Common/Medium/Distinct
			S	·				
				Charles and the control of the contr		With the second		
			-					
¹ Type: C=Cond	entration, D=De	pletion, RM=I	Reduced Matrix, CS=	:Covered o	Coated San	d Graine		2) continue Di - Done Linius - Mandalia
			o all LRRs, unles				Indic	² Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
	Histosol (A1)				Sandy Redo		muic	·
	Histic Epipedon	(A2)						2 cm Muck (A10)
	Black Histic (A3)				Stripped Mat	` '		Red Parent Material (TF2)
	` '					y Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide					d Matrix (F2)		Other (explain in Remarks)
	Depleted Below I		(A11)		Depleted Ma	trix (F3)		
	Thick Dark Surfa	ce (A12)		X	Redox Dark	Surface (F6)		3
	Sandy Mucky Mi	• •			Depleted Dar	k Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	Sandy Gleyed M	atrix (S4)			Redox Depre	ssions (F8)		problematic.
Restrictive L	ayer (if prese	ent):						
Type:								
Depth (inches)):				-		Hudvia Cail Dua	
Remarks:					-		Hydric Soil Pres	sent? Yes X No
HYDROLOG Wetland Hyd	GY Irology Indica	ntors:						
			quired; check all th	at annly)				Occupation to the top of
	ourface Water (A		dired, crieck all ti		Nator staines	Leaves (B9) (I	Event MI DA	Secondary Indicators (2 or more required)
	ligh Water Table	•			, 2, 4A, and		except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
	aturation (A3)	. (142)				•		
	Vater Marks (B1)	•			Salt Crust (B1	•		X Drainage Patterns (B10)
	ediment Deposit					ebrates (B13)		Dry-Season Water Table (C2)
	rift Deposits (B3			-		fide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	Igal Mat or Crus	•					Living Roots (C3)	X Geomorphic Position (D2)
	on Deposits (B5					Reduced Iron (C	•	Shallow Aquitard (D3)
	urface Soil Crac	•					wed Soils (C6)	Fac-Neutral Test (D5)
	undation Visible					essed Plants (I	OT) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	parsely Vegetate				ither (Explair	n in Remarks)		Frost-Heave Hummocks (D7)
		d Concave S	bullace (Do)					
Field Observ								
Surface Water F	Present? Yes		No X	Depth (i	nches):			
Water Table Pre	esent? Yes	X	No	Depth (i	nches):	<9	Wetland Hydr	ology Present?
Saturation Prese (includes capillary		<u>X</u>	No	Depth (i	nches):	0		Yes X No
Describe Record	ded Data (stream	n gauge, moni	itoring well, aerial ph	otos, previo	us inspectior	ns), if available:		
emarks:								

PHS#	6464
egion	
4/17	7/2018

								or i togioni	
Project/Site: C	Dak Ridge Subdiv		City/County:		ern Mountain: linnville/Yamhill		ampling Date:		7/2018
Applicant/Owner: F	Premier Developr	ment, LLC	•			State: OR	. •	Sampling Point	
Investigator(s):	CR/JT		Section, Township, Ran				-	Sampling Foling S, Range 4W	
Landform (hillslope, terr	race, etc.:)	Berm	,		oncave, convex, non		Concave	Slope (%)	: 2
Subregion (LRR):	LRR	A	Lat:	45.228			23.211944		
Soil Map Unit Name:			– ilty Clay Loam			<u> </u>		Datum	WGS84
Are climatic/hydrologic o	conditions on the site			Yes		NWI Classificati		None	
Are vegetation			_significantly dis			No		olain in Remarks)	
Are vegetation					Are "Normal Circ			<u> </u>	-
#790ati-ting	**************************************				d, explain any answe				
SUMMARY OF FII				npling point	locations, tran	sects, imp	ortant feat	ures, etc.	
Hydrophytic Vegetation	•	X No		is Sampled A	rea within				
Hydric Soil Present?	Yes	No	<u> X</u>	a Wetla	nd?	Yes		No X	_
Wetland Hydrology Pres	sent? Yes	No	<u> </u>	1					
VEGETATION LI	so solontific vo								
VEGETATION - U	se scientific na			1	L				
		absolute % cover	Dominant Species?	Indicator Status	Dominance Te	st workshee	t:		
<u> ree Stratum</u> (plot siz	re:)			Number of Domina	int Species			
1					That are OBL, FAC	•		4	(A)
2									,
3					Total Number of D	ominant			
1					1	O		4	(D)
apling/Shrub Stratum	(plot size:	0	= Total Cover		Species Across All			4	(B)
12	(plot size:	0	= Total Cover		Percent of Domina That are OBL, FAC	nt Species SW, or FAC:			(A/B)
1 2 3	(plot size:)	= Total Cover		Percent of Domina That are OBL, FAC	nt Species SW, or FAC:	et:	100%	, , ,
1 2 3 4	(plot size:	<u> </u>	= Total Cover		Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of	nt Species CW, or FAC: ex Workshee	et: Multiply by	100%	, , ,
1 2 3 4	(plot size:				Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species	nt Species EW, or FAC: ex Workshee	et: Multiply by x 1 =	100%	, , ,
1 2 3 4	(plot size:	0	= Total Cover		Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW specie	nt Species CW, or FAC: ex Workshee	et: Multiply by x 1 = x 2 =	100% 	, , ,
1	e: 5)				Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species	nt Species EW, or FAC: EX Workshee	et: Multiply by x 1 =	100%	, , ,
1	e: 5) undinaceus			FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species	nt Species EW, or FAC: EX Workshee	Multiply by x 1 = x 2 = x 3 =	100% 	, , ,
1	e: 5) undinaceus		= Total Cover	FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species	nt Species EW, or FAC: ex Workshee s	Multiply by x 1 = x 2 = x 3 = x 4 =	100%	, , ,
1	e: 5) undinaceus		= Total Cover X X X	FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species	nt Species EW, or FAC: ex Workshee s	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 =	100%	(A/B)
1	e: 5) undinaceus		= Total Cover	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species	ex Workshee o o o o o o o o o o o o	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A)	100%	(A/B)
1 2 3 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	e: 5) undinaceus		= Total Cover X X X	FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species EW, or FAC: Ex Workshee S O adex =B/A =	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A)	100%	(A/B)
1	e: 5) undinaceus		= Total Cover X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	ex Workshee of the second of	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A)	0 0 0 0 0 0	(A/B)
1	e: 5) undinaceus		= Total Cover X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals Prevalence In	ex Workshee oddex =B/A = getation Ind 1- Rapid	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) # icators: Test for Hydro	100%	(A/B)
1	e: 5) undinaceus		= Total Cover X X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals	nt Species EW, or FAC: EX Workshee Outlook 1- Rapid 2- Domin	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) ## icators: Test for Hydronance Test is >	100%	(A/B)
1	e: 5) undinaceus		= Total Cover X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals Prevalence In	nt Species EW, or FAC: EX Workshee Outlook 1- Rapid 2- Domin 3-Prevale	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) ## icators: Test for Hydro ance Test is > ence Index is s	100%	(A/B)
1	e: 5) undinaceus		= Total Cover X X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals Prevalence In	nt Species EW, or FAC: EX Workshee a	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) # icators: Test for Hydro ance Test is > ence Index is sological Adapta	100%	(A/B) (B)
1 2 3 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	e: 5) undinaceus ensis		= Total Cover X X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FAC Species FACU Species UPL Species Column Totals Prevalence In	nt Species EW, or FAC: ex Workshee a	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) # icators: Test for Hydro ance Test is > ence Index is sological Adapta	100% To DIV/0! DIV/0! Div/ois Vegetation 150% 53.01 ations 1 (provide s a separate sheet)	(A/B) (B)
1	e: 5) undinaceus ensis		= Total Cover X X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FACU Species FACU Species UPL Species Column Totals Prevalence In	nt Species EW, or FAC: EX Workshee O Idex =B/A = Getation Ind 1- Rapid 2- Domin 3-Prevale 4-Morphodata in R 5- Wetlan	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) ## icators: Test for Hydro ance Test is > ence Index is sological Adapta emarks or on and Non-Vascul	100% To DIV/0! DIV/0! Div/ois Vegetation 150% 53.01 ations 1 (provide s a separate sheet)	(A/B) (B) upporting
1 Schedonorus aru 2 Trifolium repens 3 Alopecurus prate 4 Poa annua 5 Bellis perennis 6 7	e: 5) undinaceus ensis		= Total Cover X X X X	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FACU Species UPL Species Column Totals Prevalence In Hydrophytic Ve	nt Species EW, or FAC: EX Workshee a	Multiply by x1 = x2 = x3 = x4 = x5 = (A) # icators: Test for Hydro ance Test is > ence Index is sological Adaptate emarks or on and Non-Vascul atic Hydrophyti	100% T: O O O O O DIV/0! Div/o! Div/oi cophytic Vegetation 50% 63.01 ations¹ (provide s a separate sheet) atiar Plants¹ ic Vegetation¹ (E)	(A/B) (B) upporting)
1 2 3 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	e: 5) undinaceus ensis		= Total Cover X X X X = Total Cover	FAC FAC FAC	Percent of Domina That are OBL, FAC Prevalence Ind Total % Cover of OBL Species FACW species FACU Species UPL Species Column Totals Prevalence In Hydrophytic Ve	nt Species EW, or FAC: EX Workshee a	Multiply by x 1 = x 2 = x 3 = x 4 = x 5 = (A) ## icators: Test for Hydro ance Test is > ence Index is sological Adapta emarks or on and Non-Vascul attic Hydrophytind hydrology in	100% T: O O O O O DIV/0! Div/o! Div/oi cophytic Vegetation 50% 63.01 ations¹ (provide s a separate sheet) atiar Plants¹ ic Vegetation¹ (E)	(A/B) (B) upporting)

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PHS#	

Sampling Point:

(Inches)	Matrix				x Features	min the abse	nce of indicators.)	
(Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 3/3	70	Maria	2 <u>, , , , , , , , , , , , , , , , , , ,</u>			Silty Clay	Gravel and Rock throughout
0-18	10YR 4/1	30					Silty Clay	Graver and Rook unoughout
	,			+				
70								
		THOUSAND TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN		*	- The State of the			
					1—————————————————————————————————————			
	entration, D=Depletio							² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Appli	cable to	all LRRs, unles	s otherwi	se noted.)		Indic	ators for Problematic Hydric Soils ³ :
Н	listosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)
H	listic Epipedon (A2)				Stripped Mai	trix (S6)		Red Parent Material (TF2)
B	lack Histic (A3)			[.oamy Muck	ky Mineral (F1) (e	except MLRA 1)	Very Shallow Dark Surface (TF12)
H	ydrogen Sulfide (A4)	į		L	.oamy Gleye	ed Matrix (F2)		Other (explain in Remarks)
D	epleted Below Dark	Surface (A	.11)	[Depleted Ma	atrix (F3)		
	hick Dark Surface (A	,		F	Redox Dark	Surface (F6)		
S	andy Mucky Mineral	(S1)			Depleted Da	rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland
S	andy Gleyed Matrix ((S4)		F	Redox Depre	essions (F8)		hydrology must be present, unless disturbed or problematic.
Restrictive La	ayer (if present):							
Туре:								
Depth (inches):							Hydric Soil Pres	sent? Yes No X
Remarks:								
Disturbed soi		ted with	sewer manhol	e. 	_			
HYDROLOG			sewer manhol	e. 				
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Appendix C

Study Area Photos (ground level)





Photo A:

Looking north at sample point 1 within an upland area that experienced recent rains.

Photo date: January 22, 2019

Photo B:

Looking southeast at sample point 2 adjacent to Baker Creek.

Photo date: October 24, 2018



Project #6464 3/15/2019



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

Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo C:

Looking southwest toward Wetland F and sample points 3 and 4 in the central study area.

Photo date: October 24, 2018

Photo D:

Looking northeast at Wetland E and sample points 8 and 9 and in the vicinity of sample points 6 and 7 in the central study area.

Photo date: October 24, 2018



Project #6464 3/15/2019



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Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo E:

Looking northeast at an upland area and in the vicinity of sample point 5.

Photo date: October 18, 2018

Photo F:

Looking northwest upslope in an upland field in the northern study area.

Photo date: October 24, 2018



Project #6464 3/15/2019



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Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo G:

Looking northwest at sample points 21 and 22 along the northwest boundary of Wetland A in the central study area.

Photo date: January 22, 2019

Photo H:

Looking south at Wetland D and sample points 12 and 13 in the southern study area.

Photo date: October 24, 2018



Project #6464 3/15/2019



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Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo I:

Looking northwest within Wetland A at sample points 15 and 16 and in the vicinity of sample point 14.

Photo date: October 24, 2018

Photo J:

Looking southwest toward Wetland B and at sample points 17 and 18.

Photo date: October 24, 2018



Project #6464 3/15/2019



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Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo K:

Looking southeast at the southern boundary of Wetland A and sample points 19 and 20.

Photo date: October 24, 2018

Photo L:

Looking northeast at the central portion of study area and at sample point 24 within Wetland A and in the vicinity of sample point 23

Photo date: January 22, 2019



Project #6464 3/15/2019



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Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo M:

Looking north toward sample point 23 and a narrow portion of Wetland A in the central study area.

Photo date: October 18, 2018

Photo N:

Looking northeast at the central portion of the study area within Wetland A and at sample points 28 (right) and 27 (left).

Photo date: April 17, 2018



Project #6464 3/15/2019



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Oak Ridge Subdivision and Sewerline - McMinnville, Oregon



Photo O:

Looking northeast at Wetland A and sample points 34 (left) and 35 (right) in the eastern portion of the study area.

Photo date: April 17, 2018

Photo P:

Looking north at sample points 36 (back and slightly left) and 37 (foreground and slightly right) in the eastern end of the study area.

Photo date: April 17, 2018



Project #6464 3/15/2019

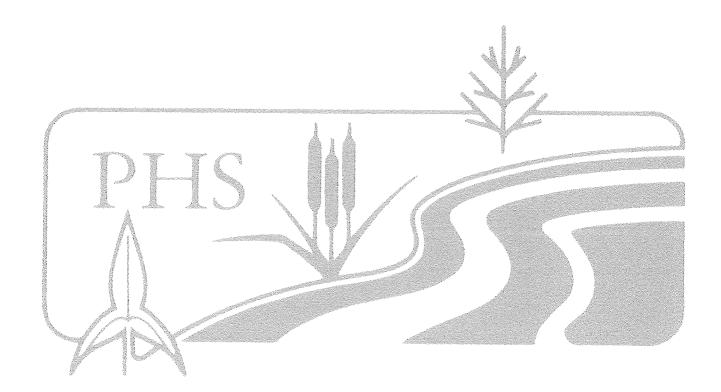


Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Photo documentation

Oak Ridge Subdivision and Sewerline - McMinnville, Oregon

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 study area 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 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.

Observations of hydrology, soils, and vegetation, were made using the "Routine On-study area" 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 up to 24 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.