WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

A complete and signed report cover form, along with applicable review fee, are required before a report review timeline can be initiated by the Department of State Lands. All applicants will receive an emailed confirmation that includes the report's unique file number and other information.

Ways to submit report:

- Under 50MB A single unlocked PDF can be emailed to wetland_delineation@dsl.oregon.gov.
- 50MB or larger A single unlocked PDF can be uploaded to DSL's Box.com website. After upload notify DSL by emails at wetland.delineation@dsl.oregon.gov
- OR a hard copy of the unbound report and signed cover form can be mailed to Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279

Ways to pay review fee:

- By credit card on DSL's epayment portal after receiving the unique file number from DSL's emailed confirmation.
- By check payable to the Oregon Department of State Lands attached to the unbound mailed hardcopy <u>OR</u> attached to the complete signed cover from if report submitted electronically.

Contact and Authorization Information	
Applicant Owner Name, Firm and Address:	Business phone # 503.925.2304
Jason Waters – City Engineer	Mobile phone # (optional)
City of Sherwood 22560 SW Pine Street	E-mail: WatersJ@SherwoodOregon.gov
Sherwood, OR 97140	
Authorized Legal Agent, Name and Address:	Business phone #
	Mobile phone # E-mail:
Leither own the property described below or I have legal outhor	ty to allow access to the property. I authorize the Department to access the
property for the purpose of confirming the information in the repo	ort after prior polification to the primary contact
Typed/Printed Name: Jason M. Waters	Signature:
Date: 8/23/2024 Special instructions regarding site a	ccess:
Project and Site Information	
Duningt Name	Latitude: 45.3637 Longitude: -122.8162
Project Name:	decimal degree - centroid of site or start & end points of linear project
Ice Age Drive	Tax Map # 2S 1W 28C
	Tax Lot(s) 600, 700, 701, and Bonneville Power right-of-way
Proposed Use:	Tax Map # 2S 1W 28D
Street construction	Tax Lot(s) 400, 500, 600, 601, 602, 700, 800, 900 & portions of BPA and Dahlke Lane rights-of-way
Project Street Address (or other descriptive location):	Township 2S Range 1W Section 28 QQ C & D
, , , , , , , , , , , , , , , , , , , ,	Use separate sheet for additional tax and location information
21428 SW Dahlke Lane and adjoining parcels to the east	Waterway: none River Mile: N/A
	Tarefullia. 1471
City: Sherwood County: Washington	
Wetland Delineation Information	Di # 500 570 0000
Wetland Consultant Name, Firm and Address: Pacific Habitat Services	Phone # 503-570-0800 Mobile phone #
Attn: Shawn Eisner	E-mail: se@pacifichabitat.com
9450 SW Commerce Circle, Suite 180	<u> </u>
Wilsonville, OR 97070	
The information and conclusions on this form and in the attache Consultant Signature:	d report are true and correct to the best of my knowledge. Date: 8/3/23
Primary Contact for report review and site access is	
	size: 88.99 acre Total Wetland Acreage: 2.18 acres
Check Applicable Boxes Below	Total Wetland Acreage. 2.10 acres
	N
R-F permit application submitted	Fee payment submitted \$540
☐ Mitigation bank site	Resubmittal of rejected report (\$100)
☐ EFSC/ODOE Project Mgr:	Request for Reissuance. See eligibility criteria (no fee)
☐ Wetland restoration/enhancement project (not mitigation	on) DSL # Expiration Date
☐ Previous delineation/application on parcel?	LWI shows wetlands or waters on parcel?
If Known, previous DSL #	Wetland ID Code
·	Office Use Only
·	

Wetland Delineation Ice Age Drive Sherwood, Oregon

Prepared for

City of Sherwood 22560 SW Pine Street Sherwood, OR 97140

Prepared by

Tina Farrelly, PWS Alex Sherman; Shawn Eisner

Pacific Habitat Services, Inc.

Wilsonville, Oregon 97070 (503) 570-0800 (503) 570-0855 FAX

PHS Project Number: 7431

August 3, 2023



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I. INTRODUCTION

Pacific Habitat Services, Inc. (PHS) conducted a wetland delineation for the Ice Age Drive public works project in Sherwood, Oregon (Township 2 South, Range 1 West, Section 28C, Tax lots 600, 700, 701, & Bonneville Power Administration (BPA) right-of-way; Section 28D, Tax Lots 600, 601, 602, 700, 800, & portions of 400, 500, 900, BPA right-of-way, and Dahlke Lane right-of-way). This report presents the results of PHS's wetland delineation within the study area. Figures, including a map depicting the location of wetlands within the study area, are located in Appendix A. Data sheets documenting on-site conditions are in Appendix B. Ground-level photos of the site are located in Appendix C.

II. RESULTS AND DISCUSSION

A. Landscape Setting and Land Use

The study area is located east of SW Oregon Street, beginning about 900 feet south of the intersection of SW Oregon Street and SW Tualatin-Sherwood Road, in Sherwood, Oregon. Land use around the study area includes industrial, commercial, single-family residential, and open space. The Bonneville Power Administration (BPA) right-of-way trends northwest to southeast through the study area.

The study area consists of moderately to steeply sloping topography, with the highest elevations located in the western portion of the study area. Elevations on site range from 190 to 250 feet. The lowest elevations are in the southwest portion of the study area. The site generally consists of cleared and undeveloped, and/or forested areas. A few areas have been developed for light industrial uses. Several single-family homes and associated outbuildings are present with the study area.

Patches of forest remain, and dominant species include Douglas fir (*Pseudotsuga menziesii*, FACU), Oregon white oak (*Quercus garryana*, FACU), Pacific madrone (*Arbutus menziesii*, UPL), snowberry (*Symphoricarpos albus*, FACU), Himalayan blackberry (*Rubus armeniacus*, FAC), and poison oak (*Toxicodendron diversilobum*), with groundcover dominated by a variety of weedy grasses and forbs.

The study area is within the Rock Creek-Tualatin River (170900100503) subwatershed. Two wetlands are present within the study area and are described in Section E below.

The Natural Resources Conservation Service (NRCS) depicts three soil map units within the study area, including Briedwell stony silt loam, 0-7% slopes, Laurelwood silt loam, 3 to 7 percent slopes, and Xerochrepts-Rock outcrop complex. None of these soil map units are listed as hydric.

B. Site Alterations

Historic aerials dating back to 1952 show the north side of the BPA corridor mostly forested with the south side being cleared. Patches of forested and shrub cover developed in the cleared area until around 2005 when the south side of the corridor was cleared again. By 1994, areas in the

forest north of the corridor had been cleared to build single-family homes. By the year 2000, aerial photos suggest that the area adjacent and west to where Wetland A is located had been likely filled and developed for commercial or light industrial purposes.

The Google Earth historical photos of the study area from 1994 (the earliest available) through 2023 area shows substantive changes on the site. As stated above, the site was forested, and relatively unmanaged until the early 2000's. By that time several single-family homes were already present within the study area. Beginning in 2000, the western portions of tax lots 701, 800 and 900 were cleared. Between August 2003 and July 2004, tax lot 600 was logged. In 2007, tax lot 701 was being used for vehicle storage, and by 2010, this parcel was being used for vehicle, container, and equipment storage. By April 2015, the western portion of tax lot 800 was also being used for vehicle storage. Between July 2016 and July 2017, tax lot 601 was logged. By May 2021, this tax lot was also used for vehicle storage. In July of 2022, tax lot 600 is cleared and scraped, in preparation for site construction, and by May of 2023, three building foundations were constructed, and the southern portion apparently being prepped for additional structures.

No other recent fill material or deposits were observed within the study area.

C. Precipitation Data and Analysis

PHS performed the wetland delineation and data collection on April 14, 2023. For climate analysis, PHS used the Direct Antecedent Rainfall Analysis Method (DAREM) for all field dates. DAREM categorizes rainfall of prior periods as, 1) drier than normal (sum is 6-9), 2) normal (sum is 10-14), 3) wetter than normal (sum is 15-18). The weighted average, as shown in Table 1, is then applied for the wetland hydrology assessment. The REX 1 S, OR Weather Station (6.4 miles southwest of the study area) and WETS table was used for the analysis. Recorded precipitation for the water year, beginning on October 1, 2022, and through April 13, 2023, was 31.18 inches, which is 88 percent of normal (35.63 inches). Note that REX 1 S, OR was the closest station that had sufficient historical data to conduct the precipitation analysis.

The weighted average precipitation for the three months preceding the march fieldwork was normal. Approximately 2.88 inches of precipitation was recorded in the two weeks preceding the day of the March 14 fieldwork, with a trace of precipitation falling on that day.

Table 1: Comparison of recorded monthly precipitation at REX 1 S, OR Weather Station to the WETS Tables, prior to April 2023 wetland delineation field work.

Prior	WE'		Measured	Condition	Condition Value	Month	Multiply
Month Name	(inch		Rainfall (inches)	Dry, Wet, Normal	(1=dry, 2=normal, or	Month weight	Previous two columns
	30th	70th		Normai	3=wet)		
January	4.44	7.70	2.74	Dry	1	1	1
February	2.74	5.18	3.32	Normal	2	2	4
March	3.65	5.83	4.34	Normal	2	3	6
						Sum*	11

^{*1)} drier than normal (sum is 6-9), 2) normal (sum is 10-14), 3) wetter than normal (sum is 15-18)

Results from the Antecedent Precipitation Tool (APT) developed by the United States Army Corps of Engineers (USACE) showed that the rainfall levels were above the 30-year normal range; a drought index of 'mild wetness'; and normal conditions given a summed score of 14.

Below is an accumulation graph illustrating precipitation levels from two weeks prior to the site visit on April 14th, 2023. Precipitation data from SHERWOOD 0.6 SW shows that rainfall accumulation levels reached 5.72 inches. The total precipitation for the first half of April in 2023 exceeded the average total precipitation for the whole month of April every year since 1953 except for April of 1993 that experienced 7.00 inches total, indicating that rainfall was above average prior to the site visit.



Graph 1. Accumulation graph from SHERWOOD 0.6 SW, OR spanning from March 31st to April 13th, 2023.

D. Methods

Wetland Methodology

PHS delineated the limits of the wetlands on the site based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation, in accordance with the Routine On-site Determination, as described in the *Corps of Engineers Wetland Delineation Manual, Wetlands Research Program Technical Report Y-87-1* ("The 1987 Manual") and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region.* PHS conducted the wetland delineation within the study area on April 14, 2023.

The entire study area was investigated for the presence of wetlands or other waters. Two wetlands were delineated within the study area. Wetlands A and B were delineated based on topographic changes and changes from observed hydric soils to soils where no hydric indicators

were observed. Vegetation changes from facultative shrubs to upland trees were also used to determine the wetland/upland boundary.

The vegetation throughout the project area generally consists of forested patches and open space dominated by facultative grasses and weedy forbs. Sample points 1, 2, 5, 9, and 10 are representative of the upland areas throughout the study area. The upland areas do not exhibit surface indicators of wetlands (i.e. ponded surface water, geomorphic position, or stunted/stressed vegetation, FACW or wetter vegetation, etc.).

Non-wetland waters are not present within the study area.

E. Description of all Wetlands and Other Non-Wetland Waters

Wetlands A and B

Wetlands A is located almost entirely within the BPA right-of-way in the northeastern portion of the study area; Wetland B is located predominantly on tax lot 700 in the eastern portion, though does extend eastward beyond the study area. Both wetlands lack surface water connections to any other wetlands or waterways; this includes the offsite extent of Wetland B (see Section H). The following table summarizes Wetlands A and B.

Table 2. Summary of Wetland Areas within the Ice Age Drive Study Area

Wetland	Size (square feet /acres)	Cowardin Class	Hydrogeomorphic (HGM) Class	Dominant Vegetation
A	47,680 / 1.09	PSSH*	Depressional	Rose (Rosa sp.)
В	47,604 / 1.09	PFOH**	Slope	Oregon ash (Fraxinus latifolia, FACW); dove's-foot crane's-bill (Geranium molle, UPL); creeping buttercup (Ranunculus repens, FAC); and a grass species that not able to be identified.
Wetland Total	96,284 / 2.18			

^{*}PSSC - palustrine/scrub-shrub/permanently flooded

A hydrogen sulfide odor was noted within Wetland A and that satisfies both hydric soil and wetland hydrology criteria; Soils within Wetland B meet the criteria for Redox dark surface (F6). Portions of Wetland A exhibited surface water, while both Wetlands A and B exhibited a high water table and saturation within the upper 12 inches of the soil profile.

Wetland A is isolated, bordered by industrial and commercial activity to the north and upland on the south side, and likely experiences prolonged periods of ponding throughout given its geomorphic position; onsite observations revealed that ponding was greater than 1 foot in certain areas. The dominant vegetation throughout the wetland is swamp rose (*Rosa pisocarpa*) with intermixed invasive blackberry found in the periphery of the wetland. The inner portion of the wetland is shallow, open water. Hydrology is sourced mainly from precipitation and runoff from the surrounding topography that slopes towards the wetland.

^{**}PFOH – palustrine/forested/permanently flooded

Wetland B continues north beyond the study area. Hydrology sources for the wetland include precipitation, surface runoff, and subsurface lateral flows. Surface hydrology flows northward from the onsite pond at the southern end of the wetland. At the time of the site visit, sheet flow spanned most of the wetland's width as it flowed towards the fences on the north property border. Areas that were inundated with flowing water were generally grassy with some creeping buttercup intermixed and a few shrub-sized ash trees found near the northern end.

F. Deviation from LWI or NWI

The study area is located outside of the City of Sherwood city limits. The US Fish and Wildlife Service's National Wetlands Inventory (NWI) maps a Freshwater Forested/Shrub Wetland palustrine, forested, broad-leaved deciduous, seasonally flooded wetland in the eastern portion of the site. This is consistent with PHS's delineation of Wetland B. However, PHS also delineated Wetland A within the BPA right-of-way.

NWI maps are generated primarily through the interpretation of color infrared aerial photographs from 1981 (scale of 1:58,000), with limited "ground truthing" to confirm the interpretations. The small size of the on-site wetland, and the scale of the aerial photographs used to prepare the NWI is the likely reason for the discrepancy between the wetlands mapping and the existing on-site conditions.

G. Mapping Method

PHS flagged the limits of Wetlands A and B within the study area with blue pin flags; Lime green tape was used for sample point locations. Wetlands and sample points were surveyed by PHS using a Trimble Geo7x GPS unit with submeter accuracy. The tax lot boundaries were downloaded as shapefiles from the Washington County GIS webpage.

H. Additional Information

The delineated portion of Wetland B across tax lots 700 and 800 represents the southern extent of a wetland that continues north and eastward across several parcels to the north. Though the extent of offsite wetlands on lots 500, which abuts lot 700 to the north, and lot 400 beyond is unknown, the central and northern limits of the wetland have been delineated. Prior delineations include WD2017-0008 for the Willamette Water Supply Program Water Treatment Plant as well as WD2020-0015 for an industrial parcel on Tualatin Sherwood Road (see Appendix E for both concurrence letters; note that for both of these delineations the offsite extent of Wetland B is identified as Wetland C). Though these delineations had separate study areas, the extents of Wetland C delineated by 17-0008 and 20-0015 are now encompassed within tax lot 2S128D001600. It is the results of these two delineations that confirm the lack of hydrologic connection to other wetlands or waterways; more specifically 20-0015, which confirms that even prior to development of the industrial area that Wetland C, the offsite continuation of Wetland B, lacked a direct connection to other wetlands.

I. Results and Conclusions

PHS delineated Wetlands A and B within the study area. The total area of wetland within the study area boundary is 96,284 square feet (2.18 acres), as summarized in Table 2 in Section E above.

J. Required Disclaimer

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

III. REFERENCES

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GoogleEarth Map. 2023 aerial photograph.

Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *State of Oregon 2016 Plant List. The National Wetland Plant List: 2016 Wetland Ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X http://rsgisias.crrel.usace.army.mil/nwpl_static/data/DOC/lists_2016/States/pdf/OR_2016v1.pdf

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ORMAP tax maps, 2023. http://www.ormap.org/

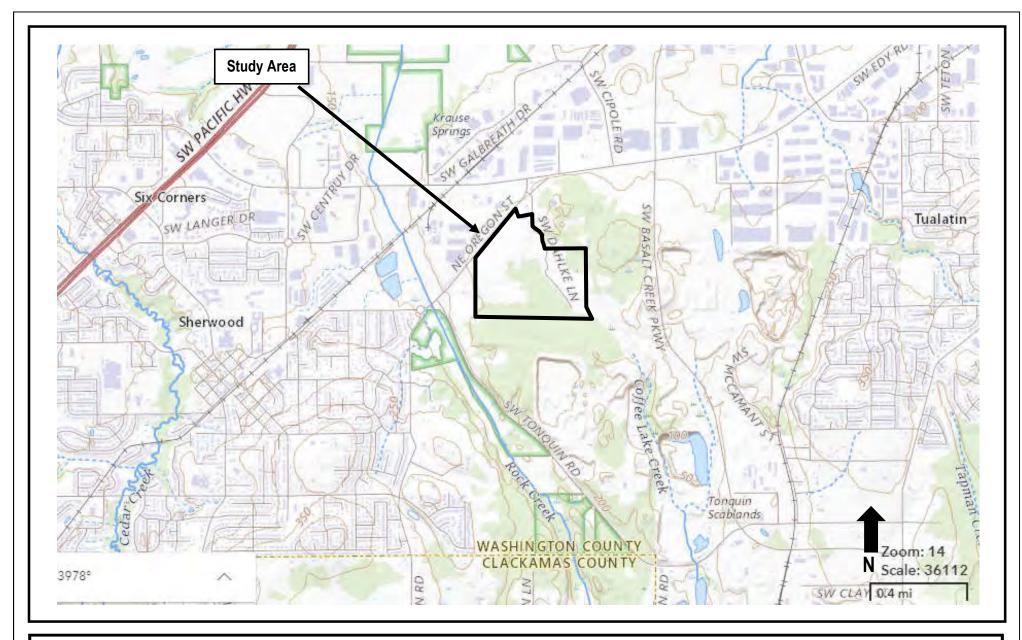
- US Army Corps of Engineers, Environmental Laboratory, 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1.
- US Army Corps of Engineers, Environmental Laboratory, 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).
- USDA, Web Soil Mapper, 2023. Soil Survey of Washington County, Oregon. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- U.S. Fish and Wildlife Service National Wetland Inventory. https://www.fws.gov/wetlands/data/mapper.html
- US Geologic Survey, 2023. 7.5-minute topographic map, Sherwood, Oregon quadrangle. https://viewer.nationalmap.gov/basic/?basemap=b1&category=ustopo&title=US%20Topo%20Download

Historic Aerials by NETRONLINE. https://historicaerials.com/viewer

Appendix A

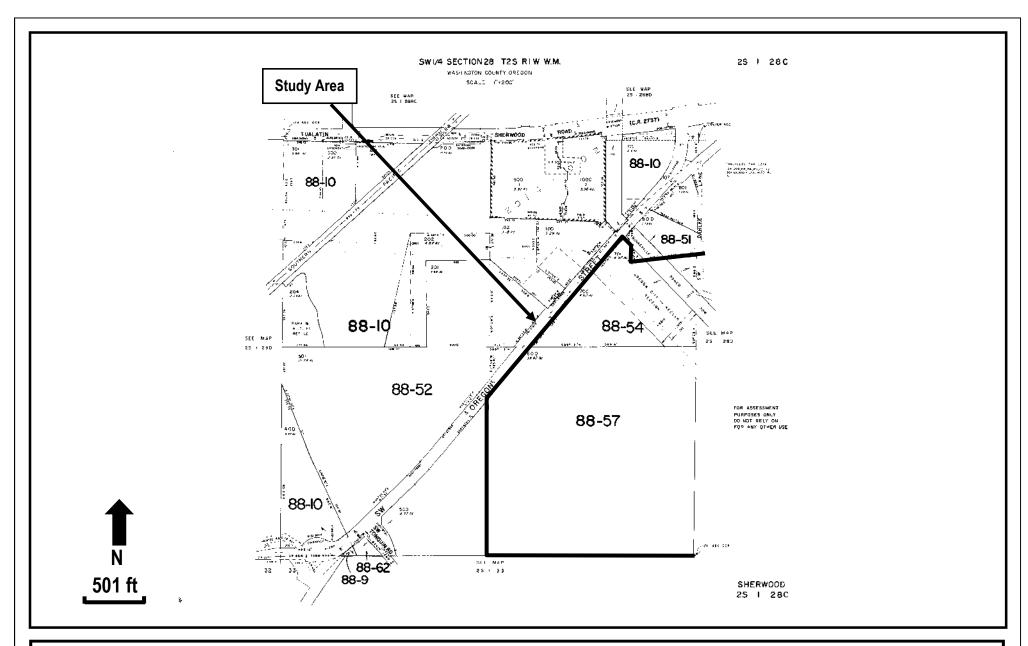
Figures





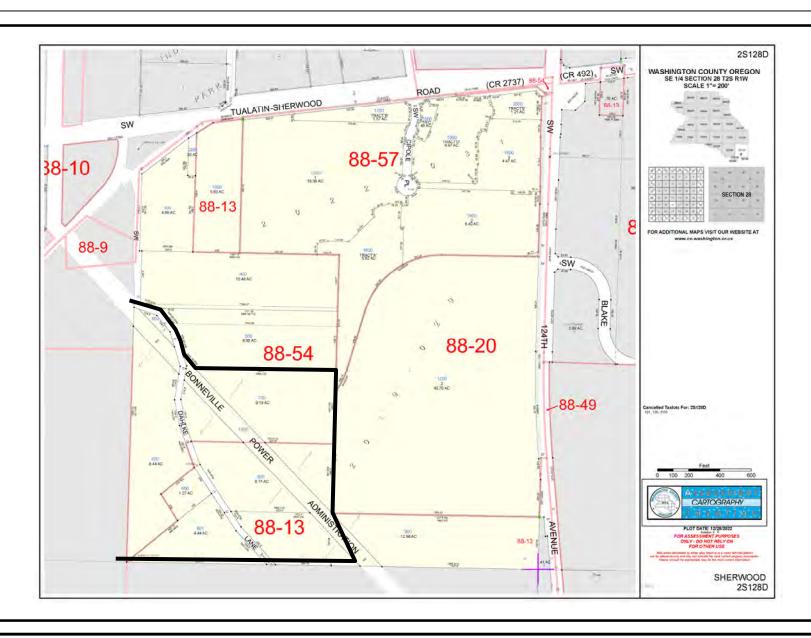


General Location and Topography Ice Age Drive - Sherwood, Oregon United States Geological Survey (USGS) Sherwood, Oregon 7.5 quadrangle, 2020 (viewer.nationalmap.gov/basic) **FIGURE**



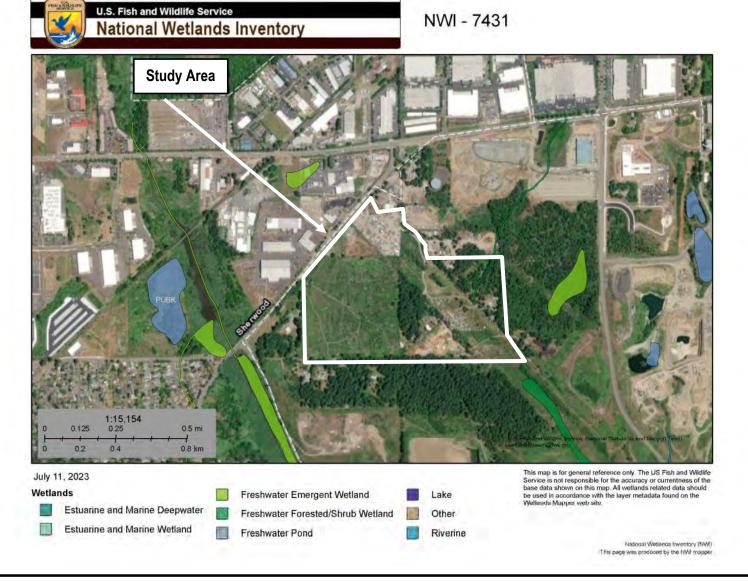


Tax Lot Map Ice Age Drive - Sherwood, Oregon The Oregon Map (ormap.net) FIGURE 2A



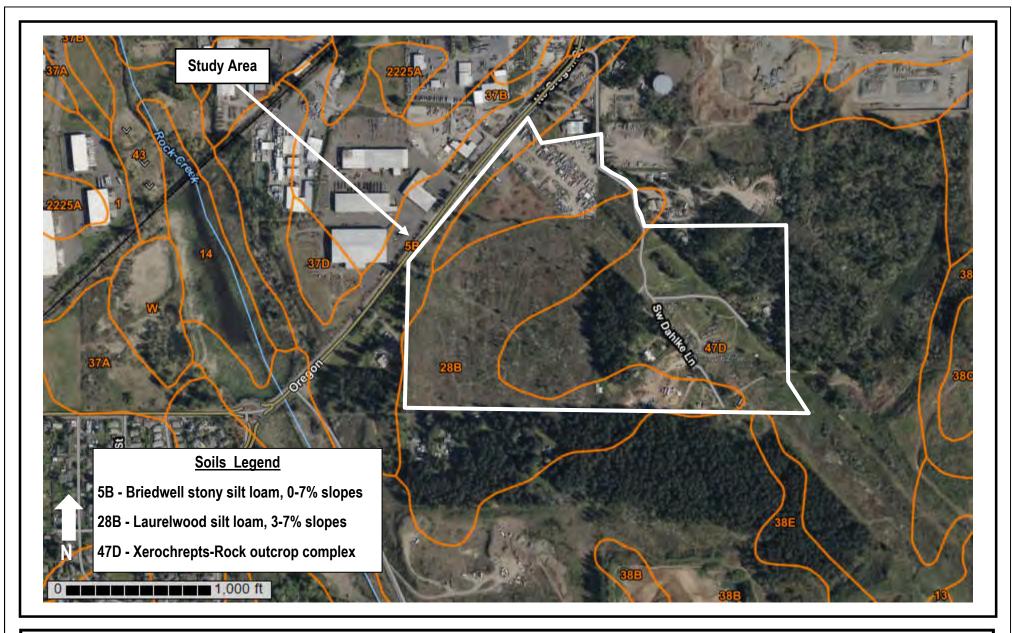


Tax Lot Map Ice Age Drive - Sherwood, Oregon The Oregon Map (ormap.net) FIGURE 2B



Project #7431 7/10/2023

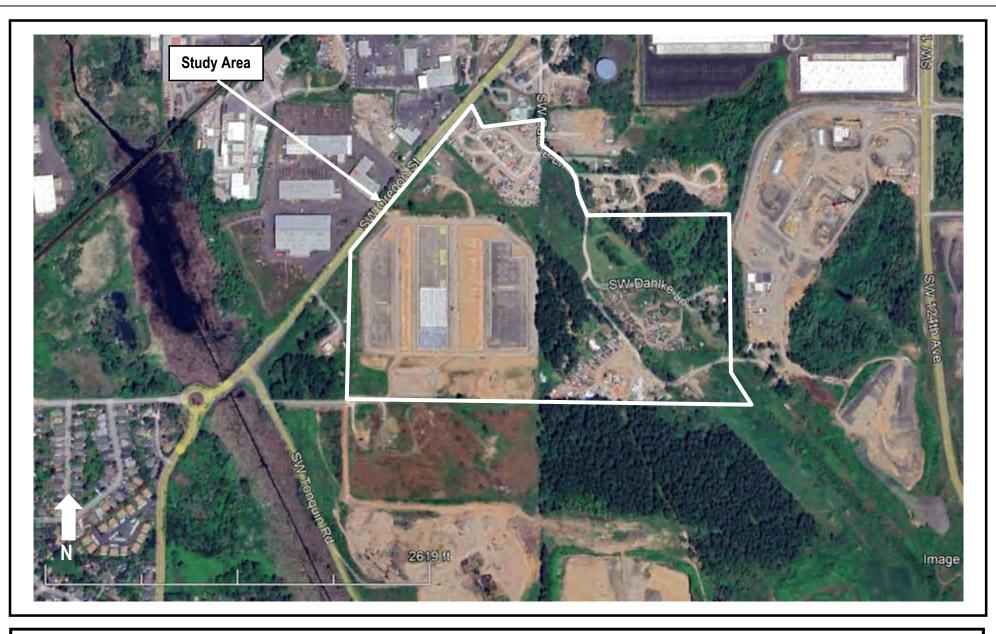
Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Local Wetlands Inventory Ice Age Drive - Sherwood, Oregon David Evans & Associates, Inc., 1992 **FIGURE**





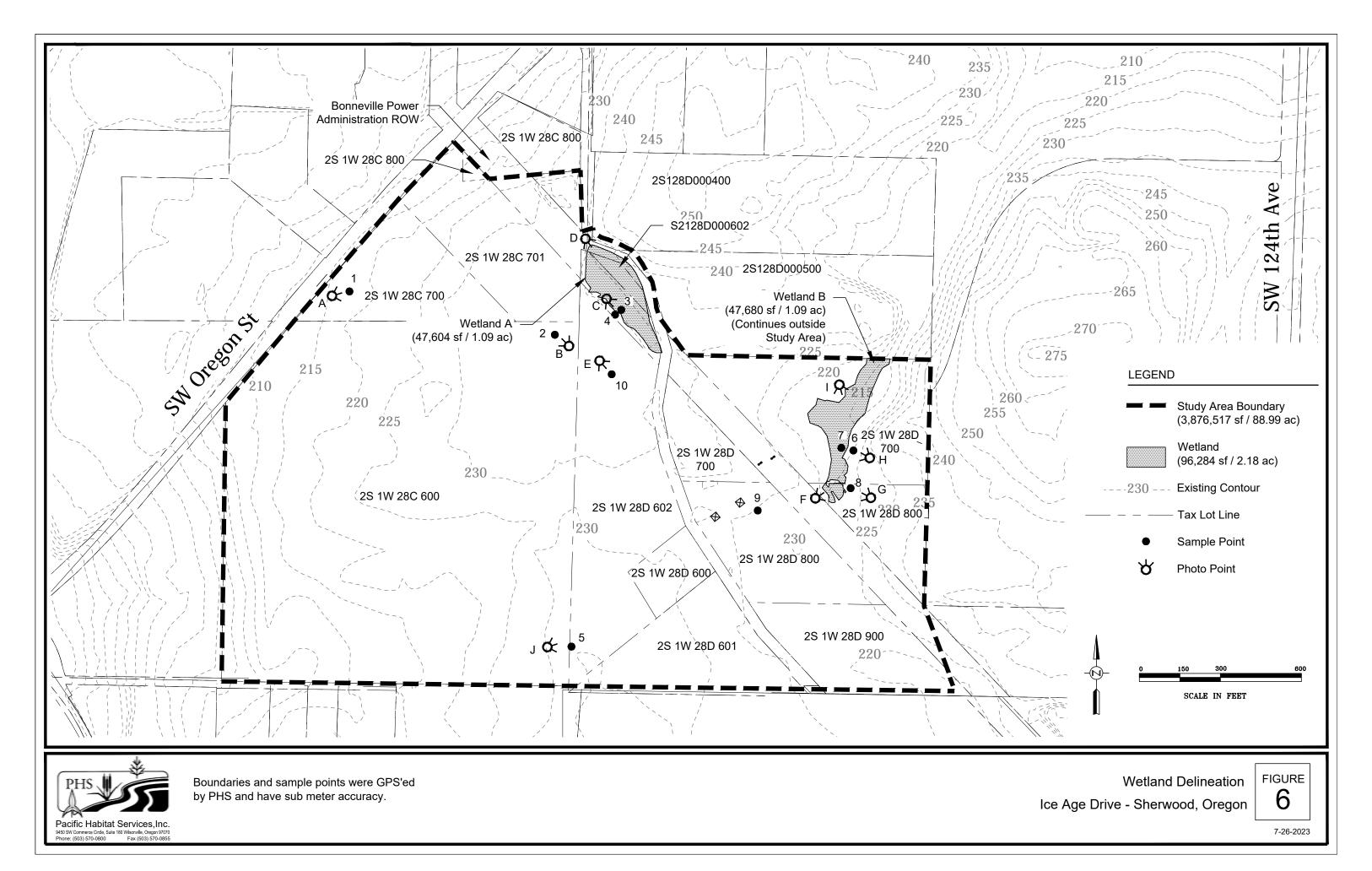
Soils
Ice Age Drive - Sherwood, Oregon
Natural Resources Conservation Services, Web Soil Survey, 2019
(websoilsurvey.sc.egov.usda.gov)

FIGURE





Aerial Photo (May, 2023) Ice Age Drive - Sherwood, Oregon GoogleEarth, 2023 **FIGURE**



Appendix B

Wetland Determination Data Sheets



7431

Project/Site:	Ice Age D	rive	City/County:	Sherw	ood/Washington	Sampling Date:	4/14/	2023
Applicant/Owner:	City of Sherwo	ood			State:	OR	Sampling Point:	1
Investigator(s):	TI		Section, To	wnship, Range:		 28C 2S 1W	_	
Landform (hillslope, te	errace, etc.:)	Slope	-		ncave, convex, none):	None	Slope (%):	<3%
Subregion (LRR):		Α .	Lat:	45.3643	377° Long:	-122.818403°	Datum:	WGS84
Soil Map Unit Name:		Briedwell stony s	_			ssification:	None	
Are climatic/hydrologic				Yes	No		olain in Remarks)	
Are vegetation		or Hydrology	significantly dist		Are "Normal Circumstance		N	
Are vegetation		or Hydrology			l, explain any answers in Rei	. , ,		
- Le vegetation			_ naturally problem	natio: il ficcaca	, explain any answers in res	narro.)		
SUMMARY OF I	FINDINGS - A	Attach site map	showing san	npling point	locations, transects	, important fea	tures, etc.	
Hydrophytic Vegetatio	on Present? Yes	X No	. <u></u> .					
Hydric Soil Present?	Yes	s No	Х	Is Sampled Ar	\/		No X	
Wetland Hydrology Pr	resent? Yes	No	x		_			
Remarks:								
	ysis for the 3 m	onths prior to fie	ld work resulte	ed in Normal	conditions. At 5.72 inch	nes however, rair	nfall over the two	o weeks prior
to field work was	significantly ab	ove normal (see	report Section	C). As such,	site conditions were as	ssumed wetter th	an normal.	
VEGETATION -	Use scientific	names of plan	ts.					
		absolute	Dominant	Indicator	Dominance Test wor	ksheet:		
Troo Stratum (~!	cizo:	% cover	Species?	Status	Number of Dami's 10	alaa.		
Tree Stratum (plot	size:				Number of Dominant Spec		4 (۸۱
1					That are OBL, FACW, or I	-AC:	(A)
3					Total Number of Dominan	•		
4					Species Across All Strata:		4 (В)
-			= Total Cover		opeoies / toross / tir otrata.		(5)
Conling/Chrub Stratur	m / l l ·	45			D 1 (D 1 10			
Sapling/Shrub Stratur		15) 55	v	EAC	Percent of Dominant Spec		4009/ /	Λ/D)
1 Rubus armeni 2 Crataegus mo		10	<u> </u>	FAC FAC	That are OBL, FACW, or	FAC:	100% (A/B)
3 Cytisus scopa				UPL	Prevalence Index Wo	rksheet:		
4		<u> </u>			Total % Cover of	Multiply b	V:	
5					OBL Species	x 1 =		
		67	= Total Cover		FACW species	x 2 =	0	
					FAC Species	x 3 =	0	
Herb Stratum (plot)			FACU Species	x 4 =	0	
1 Unidentified g	irass		X	(FAC)	UPL Species	x 5 =		
2 Agrostis sp	4-		X	(FAC)	Column Totals	0 (A)	0 (В)
3 Dactylis glome 4 Carex sp	erata			FACU (FAC)	Dravalance Index = F	2/4 -	#DIV/0!	
4 Carex sp				(FAC)	Prevalence Index =E	6/A =	#DIV/0:	
6					Hydrophytic Vegetati	on Indicators		
()						I- Rapid Test for Hyd	Irophytic Vegetation	
7					<u> </u>		. , 5	
					X 2	2- Dominance Test is	s >50%	
7		100	= Total Cover			2- Dominance Test is 3-Prevalence Index is		
7		100	= Total Cover				s ≤ 3.0 ¹	upporting
7 8 Woody Vine Stratum	(plot size:	100	= Total Cover			3-Prevalence Index is 1-Morphological Ada _l data in Remarks or o	$s \le 3.0^1$ otations ¹ (provide sun a separate sheet)	upporting
7 8 Woody Vine Stratum	(plot size:	100	= Total Cover			B-Prevalence Index is I-Morphological Adap data in Remarks or o 5- Wetland Non-Vaso	$s \le 3.0^1$ otations ¹ (provide sun a separate sheet) oular Plants ¹	
7 8 Woody Vine Stratum	(plot size:)				8-Prevalence Index is I-Morphological Adal data in Remarks or o 5- Wetland Non-Vaso Problematic Hydroph	s ≤ 3.0 ¹ otations ¹ (provide sun a separate sheet) cular Plants ¹ ytic Vegetation ¹ (Ex	plain)
7 8 Woody Vine Stratum	(plot size:	100	= Total Cover		Indicators of hydric soil ar	8-Prevalence Index is I-Morphological Adal data in Remarks or o 5- Wetland Non-Vaso Problematic Hydroph	s ≤ 3.0 ¹ otations ¹ (provide sun a separate sheet) cular Plants ¹ ytic Vegetation ¹ (Ex	plain)
7 8 Woody Vine Stratum	(plot size:)			Indicators of hydric soil and disturbed or problematic.	8-Prevalence Index is I-Morphological Adal data in Remarks or o 5- Wetland Non-Vaso Problematic Hydroph	s ≤ 3.0 ¹ otations ¹ (provide sun a separate sheet) cular Plants ¹ ytic Vegetation ¹ (Ex	plain)
7 8 <u>Woody Vine Stratum</u>)			Indicators of hydric soil ar	8-Prevalence Index is I-Morphological Adal data in Remarks or o 5- Wetland Non-Vaso Problematic Hydroph	s ≤ 3.0 ¹ otations ¹ (provide sun a separate sheet) cular Plants ¹ ytic Vegetation ¹ (Ex	plain)

SOIL												
Profile Descri	iption: (Describe to	the depth n	eeded to	documen	t the indica	tor or con	firm the absence	e of indicators.)				
Depth	Matrix				Redox F			,				
(Inches)	Color (moist)	%	Color (r	moist)	%	Type ¹	Loc ²	Texture		Ren	narks	
0-10	7.5YR 2.5/3	100						Silt Loam				
10-18	7.5YR 3/3	100						Silty Clay Loam	'			
									1			
Type: C=Con	centration, D=Depleti	on, RM=Re	duced Mat	trix, CS=C	overed or C	oated Sand	d Grains.		² Location: P	PL=Pore Linino	g, M=Matrix.	
lydric Soil	Indicators: (Appl	icable to	all LRRs	, unless	otherwise	e noted.)		Indic	ators for P	roblematic	Hydric Soils	s ³ :
	Histosol (A1)			-	Sa	andy Redox	k (S5)			2 cm Muck	(A10)	
	Histic Epipedon (A2)				St	ripped Mat	rix (S6)			Red Parent	Material (TF2))
	Black Histic (A3)			-	Lo	amy Muck	y Mineral (F1) (e	xcept MLRA 1)		Very Shallo	w Dark Surfac	e (TF12)
	Hydrogen Sulfide (A4	4)			Lc	amy Gleye	ed Matrix (F2)			Other (expla	ain in Remarks	s)
	Depleted Below Dark	Surface (A	11)		De	epleted Ma	trix (F3)					
	Thick Dark Surface (A12)			Re	edox Dark S	Surface (F6)		3			
	Sandy Mucky Minera	l (S1)		-	De	epleted Dar	rk Surface (F7)			of hydrophytic must be prese		
	Sandy Gleyed Matrix	(S4)			Re	edox Depre	essions (F8)		,	probler		
vpe:												
Depth (inches	s):							Hydric Soil Pres	sent? Yes		No	X
Depth (inches	OGY							Hydric Soil Pres	sent? Yes		No	X
Depth (inches Remarks: HYDROLO Wetland Hy	OGY drology Indicator		uirod: che	ack all th	at apply)			Hydric Soil Pres				
Depth (inches Remarks: HYDROLO Wetland Hy Primary Indi	OGY drology Indicator cators (minimum c		uired; che	eck all th		ater staine				ry Indicators	(2 or more	required)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	OGY drology Indicator cators (minimum c Surface Water (A1)	of one requ	uired; che	eck all th	W	ater staine 2, 4A, and	d Leaves (B9) (I			ry Indicators Water stain		required)
Depth (inches Remarks: HYDROLO Vetland Hy Primary Indi	OGY Odrology Indicator cators (minimum of Surface Water (A1) High Water Table (A)	of one requ	uired; che	eck all th	W 1,	2, 4A, and	d Leaves (B9) (I			ry Indicators Water stain (MLRA1, 2	(2 or more led Leaves (B9	required)
Pepth (inches Remarks: HYDROLO Vetland Hy Primary India	OGY drology Indicator cators (minimum c Surface Water (A1)	of one requ	uired; che	eck all th	W 1, Sa	2, 4A, and alt Crust (B	d Leaves (B9) (I			ry Indicators Water stain (MLRA1, 2	(2 or more led Leaves (B9, 4A, and 4B)	required)
Depth (inches Remarks: HYDROLO Vetland Hy Primary Indi	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3)	of one requ	uired; che	eck all th	W 1, Sá Ad	2, 4A, and alt Crust (B quatic Inver	d Leaves (B9) (I 4B)			ry Indicators Water stain (MLRA1, 2 Drainage Pa	(2 or more led Leaves (B9, 4A, and 4B)	required)
Primary Indi	ody cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one requ	uired; che	eck all th	W 1, Sa Ad	2, 4A, and alt Crust (B quatic Inver	d Leaves (B9) (I 4B) 11) tebrates (B13)			ry Indicators Water stain (MLRA1, 2 Drainage Pation Dry-Season Saturation \	(2 or more red Leaves (B9, 4A, and 4B) atterns (B10)	required)) (C2) al Imagery (
HYDROLO Wetland Hy Primary Indi	ody cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B	of one requ 2) B2)	uired; che	eck all th	W 1, Sa Ad Hy	2, 4A, and alt Crust (B quatic Inverydrogen Su xidized Rhi:	d Leaves (B9) (I 4B) 11) tebrates (B13)	Except MLRA		ry Indicators Water stain (MLRA1, 2 Drainage Pation Dry-Season Saturation \	(2 or more led Leaves (B9, 4A, and 4B) atterns (B10) Water Table (risible on Aeric Position (D2)	required)) (C2) al Imagery (
HYDROLO Wetland Hy Primary Indi	ody drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	of one requ 2) B2)	uired; che	eck all th	W 1, Sa Ad Hy O:	2, 4A, and alt Crust (B quatic Inver ydrogen Su xidized Rhi: resence of I	d Leaves (B9) (I 4B) 11) 1tebrates (B13) Ilfide Odor (C1) zospheres along	Except MLRA Living Roots (C3) (4)		ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic	(2 or more red Leaves (B9, 4A, and 4B) atterns (B10) Water Table of Aeria c Position (D2)	required)) (C2) al Imagery (
Depth (inches Remarks: HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	of one requests 2) B2)	uired; che	eck all th	W 1, Se Ac Ac Hy O: Pr	2, 4A, and alt Crust (B quatic Inver ydrogen Su xidized Rhi: resence of I ecent Iron F	d Leaves (B9) (I 14B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (C6)		ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral	(2 or more red Leaves (B9, 4A, and 4B) atterns (B10) Water Table of Aeria c Position (D2)	required)) (C2) al Imagery (
Primary Indi	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	of one requ 2) B2) 4)		eck all th	W 1, Sa Ac Hy O: Pr Re	2, 4A, and alt Crust (B quatic Inver ydrogen Su xidized Rhi: resence of I ecent Iron F unted or St	d Leaves (B9) (I I 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (C6)		ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant	(2 or more red Leaves (B9, 4A, and 4B) atterns (B10) Water Table or Aeria c Position (D2) uitard (D3)	(C2) al Imagery (
HYDROLO Wetland Hy Primary Indi	cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (A1)	por one request. 2) B2) 4) (B6) Aerial Image	gery (B7)	- - - - - -	W 1, Sa Ac Hy O: Pr Re	2, 4A, and alt Crust (B quatic Inver ydrogen Su xidized Rhi: resence of I ecent Iron F unted or St	d Leaves (B9) (I I 4B) 11) Itebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (C6)		ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant	(2 or more of the decision of	(C2) al Imagery (
Depth (inches Remarks: 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 (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (por one request. 2) B2) 4) (B6) Aerial Image	gery (B7)	- - - - - -	W 1, Sa Ac Hy O: Pr Re	2, 4A, and alt Crust (B quatic Inver ydrogen Su xidized Rhi: resence of I ecent Iron F unted or St	d Leaves (B9) (I I 4B) 11) Itebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (C6)		ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant	(2 or more of the decision of	(C2) al Imagery (
HYDROLO Wetland Hy Primary India	Cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (por one request. 2) B2) 4) (B6) Aerial Image	gery (B7)	- - - - - -	W 1, Sa Ac Hy O: Pr Re	2, 4A, and alt Crust (B quatic Inver ydrogen Su xidized Rhiz resence of I ecent Iron F unted or St ther (Explain	d Leaves (B9) (I I 4B) 11) Itebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (C6)		ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant	(2 or more of the decision of	(C2) al Imagery (
Primary Indi	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Crvations:	por one request. 2) B2) 4) (B6) Aerial Image	gery (B7) rface (B8)	-	W 1, Se Ac Hy O: Pr Re St	2, 4A, and alt Crust (B quatic Inversed of Second Iron Funted or State (Explainments):	d Leaves (B9) (I I 4B) 11) Itebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (C6)	Secondar	ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aq Fac-Neutral Raised Ant Frost-Heave	(2 or more of the decision of	(C2) al Imagery (
Primary India Field Obser Surface Water Water Table P Saturation Pre	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorians: The Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes	por one request. 2) B2) 4) (B6) Aerial Image	gery (B7) rface (B8) No		W 1, Sa Ac Hy O: Pr Re St Ot	2, 4A, and alt Crust (B quatic Inversed Rhizesence of I ecent Iron Funted or State (Explainment):	d Leaves (B9) (I I 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks)	Except MLRA J Living Roots (C3) 4) wed Soils (C6) D1) (LRR A)	Secondar	ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqi Fac-Neutral Raised Ant Frost-Heave	(2 or more of the decision of	(C2) al Imagery (
Field Obser Surface Water Water Table P Saturation Pre includes capillar Describe Reco	Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorians: The Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes	2) B2) 4) (B6) Aerial Imag Concave Su auge, monite	ogery (B7) rface (B8) No No oring well, 0.6 SW, C	X X X X	W 1, Sa Ad Hy Or Pr Re St Or Depth (in Depth (in Depth (in Depth (in Notos, previous s an accus	2, 4A, and alt Crust (B quatic Inversed of Second Iron Funted or State of Inches): aches): aches):	d Leaves (B9) (I I 4B) 11) tebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks) >18 >18	Except MLRA J Living Roots (C3) (4) Wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondar	ry Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aq Fac-Neutral Raised Ant Frost-Heave	(2 or more of the decision of	required) (C2) (C2) (LRR A) (D7)

7431

roject/Site:	Ice A	ge Drive		_	City/County:	Sherwe	ood/Washington		Sampling Date:	4/1	4/2023
pplicant/Owner:	City of Sh	erwood						State: C	OR	Sampling Point	: 2
vestigator(s):		TF/AS			Section, To	wnship, Range:			28C 2S 1W		
andform (hillslope, t	errace, etc.:)		SI	ope		Local relief (co	ncave, convex, none):	None	Slope (%)	: 0
ubregion (LRR):		A			Lat:	45.3641	152°	Long:	-122.816098°	Datum	WGS84
oil Map Unit Name:		Laurel	wood sil	t loan	ı, 3 to 7 perce	ent slopes		IWI Classific	ation:	None	
e climatic/hydrologi					-	Yes				lain in Remarks)	
re vegetation			ydrology		significantly dist	urbed?	Are "Normal Circu	ımstances" r		N	
re vegetation	Soil	_	drology		-		, explain any answer		, ,		=
		_	yarology		natarany probio	matio. Il ficodoa	, explain any anower	o iii i toiliai t			
UMMARY OF	FINDINGS	– Attac	ch site n	nap s	howing san	npling point	locations, tran	sects, im	portant feat	ures, etc.	
ydrophytic Vegetatio	on Present?	Yes	X	No							
ydric Soil Present?		Yes		No	Х	Is Sampled Ar		Yes		No X	
etland Hydrology P	resent?	Yes		No	Х						
emarks:		_									
ne DAREM anal	ysis for the	3 month	ns prior t	o field	d work resulte	ed in Normal o	conditions. At 5.7	72 inches	however, rain	fall over the t	wo weeks pi
field work was	significant	tly above	normal ((see r	eport Section	C). As such,	site conditions v	vere assur	med wetter tha	an normal.	
EGETATION -	Use scier	ntific nar	mes of p	olants	S.						
			absolu		Dominant	Indicator	Dominance Tes	st worksh	eet:		
•			% cov	er_	Species?	Status	L				
<u>ee Stratum</u> (plot	t size:)	1				Number of Domina	•		_	(4)
							That are OBL, FAC	CW, or FAC:		2	_(A)
							Total Number of D			•	(D)
					= Total Cover		Species Across All	Silaia.		2	_(B)
					- Total Covel						
apling/Shrub Stratu		e: 15	- '				Percent of Domina				
Cytisus scope	arius		2			UPL	That are OBL, FAC	CW, or FAC	:	100%	_(A/B)
							Duning lands and	\A/	h 4.		
							Prevalence Ind	ex works			
							Total % Cover of OBL Species		Multiply by x 1 =	<u>, </u>	
			2		= Total Cover		FACW specie		x 2 =	0	-
					10101 00101		FAC Species		x 3 =	0	=
erb Stratum (plot	t size:	5))				FACU Specie	s	x 4 =	0	_
Poa species			40		Х	(FAC)	UPL Species	3	x 5 =	0	_
Holcus lanatu	ıs		30		Х	FAC	Column Total	s	0 (A)	0	(B)
Leucanthemu	ım vulgare		10			FACU					
Lamium purp			10			UPL	Prevalence I	ndex =B/A =	<u> </u>	DIV/0!	_
Pteridium aqu			5			FACU					
	ıs		2			FACU	Hydrophytic Ve	·			
Rubus ursinu									pid Test for Hydr		on
							X		ominance Test is		
			97		- Total Cavar						
			97	<u> </u>	= Total Cover				evalence Index is rphological Adap		supporting
3	(plot size:		97		= Total Cover			4-Mo		tations ¹ (provide	
oody Vine Stratum	(plot size:		97		= Total Cover			4-Mo	rphological Adap	tations ¹ (provide a separate shee	
7 3 /oody Vine Stratum	(plot size:		97		= Total Cover			4-Mo data 5- We	rphological Adap in Remarks or on	tations ¹ (provide a separate shee ular Plants ¹	et)
7 3 'oody Vine Stratum	(plot size:) 0		= Total Cover		Indicators of hydri	4-Mo data 5- Wo Probl c soil and we	rphological Adap in Remarks or on etland Non-Vasci ematic Hydrophy	tations ¹ (provide a separate shea ular Plants ¹ tic Vegetation ¹ (et) Explain)
7 Rubus ursinu 7 A Rubus ursinu 7 A Rubus ursinu 7 A Rubus ursinu 7 A Rubus ursinu 8 A Rubu	(plot size:)				disturbed or proble	4-Mo data 5- Wo Probl c soil and we	rphological Adap in Remarks or on etland Non-Vasci ematic Hydrophy	tations ¹ (provide a separate shea ular Plants ¹ tic Vegetation ¹ (et) Explain)
7 3 /oody Vine Stratum)	·			1	4-Mo data 5- Wo Probl c soil and we	rphological Adap in Remarks or on etland Non-Vasci ematic Hydrophy	tations ¹ (provide a separate shea ular Plants ¹ tic Vegetation ¹ (et) Explain) unless

Profile Description: (Description: (Description: (Description: Matrix Remote Feature Remote Feature Remote Feature Remote Remote Feature Remote Remote		•		•		Sampling Point: 2
Deptite Marits Rentor Features Rentor Features Rentor Features Rentor	Profile Description: (Describe to the depth	needed to docume	ent the indicator or cor	nfirm the absenc	e of indicators.)	
Silt Loam	· · ·				,	
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. Third Cartery Reduced (A1)	(Inches) Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Dopletion, RM-Reduced Matrix, C8=Covered or Coaled Sand Grains. Tupic Soil Indicators: (Applicable to all LRRs, unloss otherwise noted.) Historic (A2) Historic Epipedon (A2) Sandy Reduce (S6) Petals: Epipedon (A2) Black Historic (A3) Learny Mockly Mineral (F1) (except MLRA 1) Depleted Matrix (S2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thirk Dark Surface (A11) Sandy Gleged Matrix (S4) Sandy Muckly Mineral (S1) Sandy Gleged Matrix (S4) Reduce Depleted Dark Surface (F7) Sandy Gleged Matrix (S4) Restrictive Layer (If present): Type: Depth (inches): Hydric Soil Present? Yes No X Retransace Hydric Soil Present? Yes No X Water stained Leaves (I8) Southact Water (A1) Water Matrix (B1) Dop-Season Water Table (A2) Southact Matrix (B1) Aquatic Invertebrates (I3) Water Matrix (B1) Dop-Season Water (A1) Water Matrix (B1) Aquatic Invertebrates (I3) Water Matrix (B1) Dop-Season Water (A1) Sediment Depasts (I3) Applied Took (C1) Reduced Presentes (I1) Dop-Season Water (A1) Sediment Depasts (I3) Water Matrix (B1) Dop-Season Water (A1) Sediment Depasts (I3) Water Matrix (B1) Dop-Season Water (A1) Sediment Depasts (I3) Applied Nor Crust (I64) Presence Reduced bon (C1) Southact Water (I44) Presence Reduced bon (I7) Southact Ptereset (I7) No X Depth (Inches) Pros-Hoeve Hummoots (I7) Pros-Hoeve Hummoots (I7) Pros-Hoeve Hummoots (I7) Pros-Hoeve Hummoots (I7) Present (I7) Pr	0-10 7.5YR 2.5/3 100				Silt Loam	
Histoco (A1) Samiy Redox (S5) 2 cm Muck (A10) Red Parent Malarial (TF2) Samiy Redox (S5) 2 cm Muck (A10) Red Parent Malarial (TF2) Samiy Redox (S5) Red Parent Malarial (TF2) Redox Histoc (A3) Loarny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Phytrogen Sulfide (A4) Loarny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Phytrogen Sulfide (A4) Depicted Matrix (F2) Depicted Matrix (F2) Other (explain in Remarks) Depicted Matrix (F2) Depicted Dark Surface (F7) Phytrogen Sulfide (A4) Redox Dark Surface (F7) Phytrogen Mucky Mineral (S1) Redox Depressions (F8) Phytrogen Mucky Mucky Mineral (S1) Redox Depressions (F8) Phytrogen Mucky Mucky Mineral (S1) Phytrogen Mucky Mucky Mineral (S1) Phytrogen Mucky Mu	10-16 7.5YR 3/4 100				Silty Clay Loam	
Histoso (A1) Sandy Rodox (S5) 2 cm Muck (A10) Sandy Rodox (S5) 2 cm Muck (A10) Sandy Rodox (S5) 2 cm Muck (A10) Red Perent Malerial (TF2) Sandy Rodox (S5) Red Perent Malerial (TF2) Sandy Rodox (S5) Red Perent Malerial (TF2) Red Note (A10) Red						
Histoco (A1) Samiy Redox (S5) 2 cm Muck (A10) Red Parent Malarial (TF2) Samiy Redox (S5) 2 cm Muck (A10) Red Parent Malarial (TF2) Samiy Redox (S5) Red Parent Malarial (TF2) Redox Histoc (A3) Loarny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Phytrogen Sulfide (A4) Loarny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Phytrogen Sulfide (A4) Depicted Matrix (F2) Depicted Matrix (F2) Other (explain in Remarks) Depicted Matrix (F2) Depicted Dark Surface (F7) Phytrogen Sulfide (A4) Redox Dark Surface (F7) Phytrogen Mucky Mineral (S1) Redox Depressions (F8) Phytrogen Mucky Mucky Mineral (S1) Redox Depressions (F8) Phytrogen Mucky Mucky Mineral (S1) Phytrogen Mucky Mucky Mineral (S1) Phytrogen Mucky Mu						
Histose (A1) Samiy Redox (S5) Samiy Redox (S5) 2 cm Muck (A10)						
Histosol (A1) Samiy Redox (S5) 2 cm Muck (A10) Histosol (A1) Samiy Redox (S5) 2 cm Muck (A10) Histosol (A1) Samiy Redox (S5) 2 cm Muck (A10) Histosol (A2) Shapped Matrix (S8) Read Parent Material (TF2) Black Histic (A3) Learny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Stufface (A4) Learny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Peptered Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Pept (inches): Hydric Soil Present? Yes No X **Restrictive Layer (if present):** Wetland Hydrology Indicators: **Promary 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) High Water Table (A2) 1,2,4A, and 45) (MLRA1, 2,4A, and 46) Water Marks (B1) Qualified Dark (B1) Depresent (B1) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (B1) Mineral Marks (B1) Presence of Reduced Iron (C4) Shallow Aquatria (D3) Frost-Heave Hummooks (D7) Presence of Reduced Iron (C4) Shallow Aquatria (D3) Frost-Heave Hummooks (D7) Sparsety Vegetated Concave Surface (B8) Sharlow of Sinsos (D1 (ERA) Face of Tender (B1) Frost-Heave Hummooks (D7) Prost-Heave Hummooks (D7) Presence of Reduced Iron (C4) Face Hummooks (D7) Prost-Heave Hummooks (D7) Presence of Reduced Iron (D4) Face Hummooks (D7) Prost-Heave Hummooks (D7) Presence of Reduced Iron (D4) Face Hummooks (D7) Prost-Heave Hummooks (D7) Presence of Reduced Iron (D4) Face Hummooks (D7) Prost-Heave Hummooks (D7) Presence of Reduced Iron (D4) Face Hummooks (D7) Prost-						
Histoso (A1) Sandy Rodox (S5) 2 cm Muck (A10) Sandy Rodox (S5) 2 cm Muck (A10) Sandy Rodox (S5) 2 cm Muck (A10) Red Perent Malerial (TF2) Sandy Rodox (S5) Red Perent Malerial (TF2) Sandy Rodox (S5) Red Perent Malerial (TF2) Red Note (A10) Red						
Histoso (A1) Sandy Rodox (S5) 2 cm Muck (A10) Sandy Rodox (S5) 2 cm Muck (A10) Sandy Rodox (S5) 2 cm Muck (A10) Red Perent Malerial (TF2) Sandy Rodox (S5) Red Perent Malerial (TF2) Sandy Rodox (S5) Red Perent Malerial (TF2) Red Note (A10) Red						
Histosol (A1) Histo Epipedon (A2) Black Histic (A3) Learny Mucky Mineral (F1) (except MLRA 1) Learny Gleyd Matrix (F2) Depleted Salrow Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (F3) Redox Derivesions (F8) Redox Derivesions (F8) Restrictive Layer (If present): Pype: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Hydric Soil Present? Yes No X Water stained Leaves (B9) (Except MLRA Hydric North Mineral (F1) Surface Water (A1) Surface Water (A1) Water Table (A2) Saturation (A3)	Type: C=Concentration, D=Depletion, RM=Re	educed Matrix, CS=	Covered or Coated Sar	nd Grains.		² Location: PL=Pore Lining, M=Matrix.
Haitic Epipedon (A2) Black Histic (A3) Loarry Mukry Mineral (F1) (except MLRA1) Very Shallow Dark Surface (TF12) Phydrogen Sulfided (A4) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucry Mineral (S1) Sandy Mucry Mineral (S1) Sandy Mucry Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) Restrictive Layer (if present): Fype: Popth (inches): Hydric Soil Present? Yes No X Secondary Indicators (2 or more required) Surface Water (A1) Water Stained Leaves (B9) (Except MLRA Hydric Soil Present? Yes (MLRA1, 2, 4A, and 4B) Saturation (A3) Saturation (A5) Sadiment Deposits (B2) Hydrogen Sulfide Codor (C1) Sadiment Deposits (B2) Hydrogen Sulfide Codor (C1) Saturation Visible on Aerial Imagery Drift Deposits (B3) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B8) Surface Soil Cracks (B8) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Water Table (C2) Vest No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Vest Table (C2) Yes No X Depth (inches): Vest Table (C2) Yes No X Depth (inches): Vest Table Present? Yes No X Depth (inches): Vest Table Pr	lydric Soil Indicators: (Applicable to	all LRRs, unles	s otherwise noted.)	Indica	ators for Problematic Hydric Soils ³ :
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Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) And Control of Proceedings of Proceeding	Hydrogen Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Other (explain in Remarks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Redox Depressions (F8) Redox Depressions (F8)	Depleted Below Dark Surface (A	A11)	Depleted Ma	atrix (F3)		
Sandy Gleyed Matrix (S4) Redox Depressions (F8) problematic. Restrictive Layer (if present): Popth (inches):	Thick Dark Surface (A12)		Redox Dark	Surface (F6)		
Sandy Gleyed Matrix (S4) Redox Depressions (F8) problematic. Property Possible Property Property Possible Property Property Possible Property Pr	Sandy Mucky Mineral (S1)		Depleted Da	ark Surface (F7)		
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Field Observations: Surface Water Present? Yes	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)		Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or Si	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C4 Reduction in Ploy Stressed Plants (D	xcept MLRA 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Yes No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Precipitation data from SHERWOOD 0.6 SW, OR shows an accumulation of 5.72 inches a level of rainfall that exceeds that of the observed	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave St	gery (B7)	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or Si	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C4 Reduction in Ploy Stressed Plants (D	xcept MLRA 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Saturation Present? Yes No X Depth (inches): >16 Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Precipitation data from SHERWOOD 0.6 SW, OR shows an accumulation of 5.72 inches a level of rainfall that exceeds that of the observed	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave St	gery (B7) urface (B8)	Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C4 Reduction in Ploy Stressed Plants (D	xcept MLRA 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Precipitation data from SHERWOOD 0.6 SW, OR shows an accumulation of 5.72 inches a level of rainfall that exceeds that of the observed	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Surface Water Present? Yes	gery (B7) urface (B8) No <u>X</u>	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C4 Reduction in Plov Stressed Plants (Dain in Remarks)	xcept MLRA Living Roots (C3) 4) ved Soils (C6) 1) (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)
Precipitation data from SHERWOOD 0.6 SW, OR shows an accumulation of 5.72 inches a level of rainfall that exceeds that of the observed	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave So Field Observations: Surface Water Present? Yes Water Table Present? Yes	gery (B7) urface (B8) No X	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or Si Other (Explain	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C4 Reduction in Plov Stressed Plants (Dain in Remarks)	xcept MLRA Living Roots (C3) 4) ved Soils (C6) 1) (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)
	HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave St Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	gery (B7) urface (B8) No X	Water stains 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or Si Other (Explain	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C4 Reduction in Plov Stressed Plants (Dain in Remarks)	xcept MLRA Living Roots (C3) 4) ved Soils (C6) 1) (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)

7431

Project/Site:	Ice Ag	e Drive		City/County:	Sherw	ood/Washington	Sam	pling Date:	4/14	/2023
Applicant/Owner:	City of She	rwood	_			State	: OR	:	Sampling Point:	3
Investigator(s):		TF/AS		Section, To	wnship, Range:		2	BD 2S 1W	-	
Landform (hillslope,	terrace, etc.:)		Slop	e e	Local relief (co	ncave, convex, none):		None	Slope (%):	<5%
Subregion (LRR):		Α		Lat:	45.364	193° Long	j: -122	2.815260°	Datum:	WGS84
Soil Map Unit Name:	:	Xer	ochrepts-F	— Rock outcrop co	mplex	NWI C	Classification	n:	PSS	
Are climatic/hydrolog			•	•	Yes		o X	(if no, expla	in in Remarks)	
Are vegetation	Soil	_	drology	significantly dist	urbed?	Are "Normal Circumsta	inces" prese	ent? (Y/N)	N	
Are vegetation	Soil	or Hv	drology			, explain any answers in F	•	, ,		
<u> </u>		. ,				, ,	,			
SUMMARY OF	FINDINGS -	- Attac	h site ma	p showing san	npling point	locations, transec	ts, impo	rtant featu	res, etc.	
Hydrophytic Vegetati	ion Present?	Yes	X	No	Is Sampled Ar	oo within				
Hydric Soil Present?		Yes	X I	No	a Wetlar		sX		lo	
Wetland Hydrology F	Present?	Yes	X 1	No						
Remarks:				<u> </u>						
	-		-			conditions. At 5.72 in				o weeks prio
to field work was	s significantly	y above	normal (se	e report Section	C). As such,	site conditions were	assumed	wetter tha	n normal.	
VEGETATION -	- Use scient	ific nan	nes of pla	ınts.		_				
			absolute % cover		Indicator Status	Dominance Test w	orksheet:			
Tree Stratum (plo	t size [.])	76 COVE	Species?	Status	Number of Dominant S	necies			
1		′				That are OBL, FACW, of			2	(A)
2										()
3						Total Number of Domin	ant			
4						Species Across All Stra	ta:		2	(B)
			0	= Total Cover						
Sapling/Shrub Stratu	<u>ım</u> (plot size:	15)	_		Percent of Dominant Sp	pecies			
1 Rosa sp			_′ 60	x	(FAC)	That are OBL, FACW,		1	00%	(A/B)
2 Rubus armen	niacus		10		FAC					,
3 Symphoricar	pos albus		10		FACU	Prevalence Index V	Vorksheet	t:		
4						Total % Cover of	_	Multiply by:		
5						OBL Species		x 1 =	0	
			80	= Total Cover		FACW species		x 2 =	0	
	A -!	. \				FAC Species		_ x 3 =		
Herb Stratum (plo		<u>5</u>)	20	~	(FAC)	FACU Species UPL Species		x 4 = x 5 =	0	
2	yrass			X	(FAC)	Column Totals		_		(B)
3				_		Column Totals		_(^)		(b)
4		_				Prevalence Index	=B/A =	#[DIV/0!	
5										
6						Hydrophytic Vegeta	ation Indi	cators:		
7							1- Rapid ⁻	Γest for Hydro	phytic Vegetation	า
8						Х	2- Domina	ance Test is >	50%	
			20	= Total Cover				nce Index is ≤		
			`				_		itions ¹ (provide s	
)						a separate sheet)
Woody Vine Stratum	n (plot size:		- ′				o- vvetian	d Non-Vascul	ลเ ศเลกเร	
1	n (plot size:						- Droblem -	tic Undrash +:	o Voqetation 1 /F.	volain)
	n (plot size:			- Total Cavar		Indicators of hydric soil	_		c Vegetation ¹ (Ex	
1	n (plot size:		0	= Total Cover		¹ Indicators of hydric soil disturbed or problemati	and wetlan			
12	- "			= Total Cover		disturbed or problematic	and wetlan	d hydrology m	ust be present, ι	unless
1	- "		0	= Total Cover		disturbed or problemation	and wetlan	d hydrology m	ust be present, ι	

OIL		PHS #	7431	_		Sampling Point: 3
rofile Description: (Descr	ibe to the dept	h needed to docum	ent the indicator or co	onfirm the absence	ce of indicators.)	
• •	Matrix		Redox Features		,	
(Inches) Color (mo	oist) %	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
0-4 7.5YR	3/3 100				Silt Loam	
		_				
		_				
						-
						-
		_				
ype: C=Concentration, D=	Depletion, RM=	Reduced Matrix. CS	=Covered or Coated Sa	and Grains.		² Location: PL=Pore Lining, M=Matrix.
ydric Soil Indicators:					India	cators for Problematic Hydric Soils ³ :
Histosol (A1)	(, p bcap.c	io un Erato, umo	Sandy Red			2 cm Muck (A10)
	··· (AO)					
Histic Epipedo			Stripped M			Red Parent Material (TF2)
Black Histic (A	1 3)		Loamy Mud	cky Mineral (F1) (e	xcept MLRA 1)	Very Shallow Dark Surface (TF12)
X Hydrogen Sul	fide (A4)		Loamy Gle	yed Matrix (F2)		Other (explain in Remarks)
Depleted Belo	w Dark Surface	e (A11)	Depleted M	/latrix (F3)		
Thick Dark Su	ırface (A12)		Redox Dar	k Surface (F6)		
Sandy Mucky	Mineral (S1)		Depleted D	Dark Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
Sandy Gleyed	Matrix (S4)		Redox Der	oressions (F8)		problematic.
estrictive Layer (if pre						_
epth (inches): emarks: could not assess soils	due to exce	ssive water.			Hydric Soil Pre	esent? Yes X No
emarks: could not assess soils	due to exce	ssive water.			Hydric Soil Pre	esent? Yes X No
emarks: ould not assess soils		ssive water.			Hydric Soil Pre	esent? Yes X No
emarks: could not assess soils		ssive water.			Hydric Soil Pre	esent? Yes X No
emarks: ould not assess soils	icators:		that apply)		Hydric Soil Pre	Secondary Indicators (2 or more required)
emarks: could not assess soils IYDROLOGY Vetland Hydrology Ind	icators:		• • • • • • • • • • • • • • • • • • • •	ned Leaves (B9) (E		
emarks: ould not assess soils IYDROLOGY /etland Hydrology Ind	icators: mum of one re		• • • • • • • • • • • • • • • • • • • •	ned Leaves (B9) (E		Secondary Indicators (2 or more required)
emarks: ould not assess soils IYDROLOGY /etland Hydrology Ind rimary Indicators (minin X Surface Wate	ricators: mum of one re r (A1) able (A2)		Water stair	ned Leaves (B9) (E		Secondary Indicators (2 or more required) Water stained Leaves (B9)
emarks: FOULD ON THE PROPERTY OF THE PROPERTY	icators: mum of one re r (A1) able (A2)		Water stair 1, 2, 4A, at	ned Leaves (B9) (E n d 4B) (B11)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
emarks: Ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minir X Surface Wate X High Water Ta X Saturation (AS Water Marks)	icators: mum of one re r (A1) able (A2) 3) (B1)		Water stair 1, 2, 4A, ar Salt Crust (ned Leaves (B9) (E nd 4B) (B11) vertebrates (B13)		Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
emarks: ould not assess soils IYDROLOGY /etland Hydrology Ind rimary Indicators (minir X Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep	ricators: mum of one re r (A1) able (A2) B) (B1) cosits (B2)		Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv	ned Leaves (B9) (End 4B) (B11) /ertebrates (B13) Sulfide 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: Ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minir X Surface Water X High Water Ta X Saturation (A3 Water Marks of Sediment Deposits	ricators: mum of one re r (A1) able (A2) 3) (B1) posits (B2) (B3)		Water stair 1, 2, 4A, ai 1, 2, 4Ai Salt Crust (Aquatic Inv X Hydrogen S Oxidized R	ned Leaves (B9) (End 4B) (B11) vertebrates (B13) Sulfide 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 (Ca) Geomorphic Position (D2)
emarks: ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minir X Surface Wate X High Water Ta X Saturation (AS Water Marks (AS) Sediment Dep Drift Deposits Algal Mat or C	r (A1) able (A2) (B1) cosits (B2) (B3) crust (B4)		Water stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence of	ned Leaves (B9) (End 4B) (B11) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C	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 (Geomorphic Position (D2) Shallow Aquitard (D3)
emarks: Ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minin X Surface Wate X High Water Ta X Saturation (AS Water Marks of Sediment Dep Drift Deposits Algal Mat or Color Iron Deposits	mum of one re r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5)		Water stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence of Recent Iror	ned Leaves (B9) (End 4B) (B11) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (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: ould not assess soils IYDROLOGY /etland Hydrology Ind rimary Indicators (minir X Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C	ricators: mum of one refer (A1) able (A2) B) (B1) posits (B2) (B3) crust (B4) (B5) Cracks (B6)	equired; check all	Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ned Leaves (B9) (End 4B) (B11) /ertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C n Reduction in Ploy Stressed Plants (E	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (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)
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emarks: Ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minir X Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	ricators: mum of one re r (A1) able (A2) 3) (B1) cosits (B2) (B3) crust (B4) (B5) Cracks (B6) sible on Aerial In	equired; check all	Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ned Leaves (B9) (End 4B) (B11) /ertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C n Reduction in Ploy Stressed Plants (E	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (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: Ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minin X Surface Wate X High Water Ta X Saturation (AS Water Marks (AS Sediment Dep Drift Deposits Algal Mat or Co Iron Deposits Surface Soil Co Inundation Vis Sparsely Vege ield Observations:	ricators: mum of one re r (A1) able (A2) 3) (B1) cosits (B2) (B3) crust (B4) (B5) Cracks (B6) sible on Aerial In	equired; check all	Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ned Leaves (B9) (End 4B) (B11) /ertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C n Reduction in Ploy Stressed Plants (E	Except MLRA Living Roots (C3) Living Roots (C3) Living Roots (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: ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minin X Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege ield Observations: urface Water Present?	r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aerial Inetated Concave	equired; check all magery (B7) Surface (B8)	Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp	ned Leaves (B9) (End 4B) (B11) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C n Reduction in Ploy Stressed Plants (E	Except MLRA J Living Roots (C3) J Living Roots (C3) J Living Roots (C6) J Living Roots (C6) J Living Roots (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: ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minin X Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or O Iron Deposits Surface Soil O Inundation Vis Sparsely Vege ield Observations: urface Water Present? Yellors Vater Table Present?	icators: mum of one re r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) citated Concave	equired; check all magery (B7) Surface (B8)	Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp	ned Leaves (B9) (End 4B) (B11) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C n Reduction in Plot Stressed Plants (E	Except MLRA J Living Roots (C3) J Living Roots (C3) J Living Roots (C6) J Living Roots (C6) J Living Roots (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) Frost-Heave Hummocks (D7)
emarks: ould not assess soils IYDROLOGY Vetland Hydrology Ind rimary Indicators (minin X Surface Wate X High Water Ta X Saturation (A3 Water Marks (A3 Sediment Deposits Algal Mat or Color Iron Deposits Surface Soil Color Inundation Vis Sparsely Veget ield Observations: urface Water Present? Vater Table Present? yelloudes capillary fringe) escribe Recorded Data (ste	r (A1) able (A2) 3) (B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aerial Inetated Concave Yes X Yes X Team gauge, mo	magery (B7) Surface (B8) No No No No Onitoring well, aerial p	Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv X Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp Depth (inches): Depth (inches): Depth (inches): photos, previous inspectors an accumulation	ned Leaves (B9) (End 4B) (B11) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C n Reduction in Plot Stressed Plants (E lain in Remarks) 1 Surface Surface tions), if available:	Except MLRA J Living Roots (C3) J Living Roots (C3) J Living Roots (C6) J Living Roots (C6) 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) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

7431

oject/Site:	Ice Age Di	rive	City/County:	Sherwo	ood/Washington	Sampling Date	e: 4/14/	2023
plicant/Owner:	City of Sherwo	od			State	e: OR	Sampling Point:	4
estigator(s):	AS/	ΓF	Section, To	wnship, Range:		28D 2S 1V	_	
dform (hillslope, te	errace, etc.:)	Slope		Local relief (cor	ncave, convex, none):		Slope (%):	
region (LRR):		A	Lat:	45.3643	386° Lon	g: -122.815392°	Datum:	WGS84
Map Unit Name:		Xerochrepts-Ro	- ck outcrop co	mplex		Classification:	None	
•		site typical for this tin	•	Yes			(plain in Remarks)	
vegetation		or Hydrology	significantly dist	urbed?	Are "Normal Circumsta	ances" present? (Y/N)	N	
egetation			-		l, explain any answers in			
					,			
MMARY OF I	FINDINGS - A	ttach site map	showing san	pling point	locations, transec	ts, important fe	atures, etc.	
ophytic Vegetatio	on Present? Yes	No	X	Is Sampled Ar	oa within			
ric Soil Present?	Yes	No	X	a Wetlar		es	No X	
land Hydrology Pr	resent? Yes	No	X					
eld work was	significantly ab	•	report Section		conditions. At 5.72 in site conditions were Dominance Test w	assumed wetter t		
Otractic () :	-:	% cover	Species?	Status	<u></u>			
Stratum (plot)	v	(LIDL)	Number of Dominant S		2	Ά)
Arbutus menz Pseudotsuga i			X	(UPL) FACU	That are OBL, FACW,	or FAC:	2 ((A)
rseudoisuga	menziesii			FACU	Total Number of Domir	ant		
					Species Across All Stra		6 ((B)
		35	= Total Cover				(-,
ing/Shrub Stratur	m (-1-4-i				Daniel of Daniel and O	!		
		15) 30	X	FACU	Percent of Dominant S	•	33% (A/B)
Corylus cornu Holodiscus di		20		FACU	That are OBL, FACW,			A(D)
Symphoricarp		20		FACU	Prevalence Index \	Worksheet:		
Rubus armeni		15		FAC	Total % Cover of	Multiply	by:	
Crataegus mo	nogyna	10		FAC	OBL Species	x 1	= 0	
		95	= Total Cover		FACW species	x 2	= 0	
	_				FAC Species	x 3		
o Stratum (plot		<u> </u>	v	(540)	FACU Species	x 4		
Unidentified g			<u> </u>	(FAC)	UPL Species	x5		D)
Fragaria x ana	เกลรรส		X	(UPL)	Column Totals	0 (A)	<u> </u>	B)
					Prevalence Index	:=B/A =	#DIV/0!	
					Hydrophytic Veget			
					<u> </u>	_ `	drophytic Vegetation	
			= Total Cover		<u> </u>	2- Dominance Test 3-Prevalence Index		
			- Total Cover		<u> </u>		is ≤ 3.0 aptations¹ (provide su	upporting
ody Vine Stratum	(plot size:	15)				_	on a separate sheet)	
	n diversilobum	10	X	FAC		5- Wetland Non-Vas	scular Plants ¹	
Toxicodendro						Problematic Hydrop	hytic Vegetation ¹ (Ex	plain)
Toxicodendro					¹ Indicators of hydric so	l and wetland hydrolog	y must be present, u	nless
Toxicodendro		10	= Total Cover		disturbed or problemati	c.		
Toxicodendro	rh Stratum	<u>10</u> 80	= Total Cover		disturbed or problemati Hydrophytic Vegetation	c. Yes	No	X

Profile Description: (E				_	nt the indica						
	Describe to the	ne depth ne	eeded to	docume	nt the maic	ator or con	firm the absen	ce of indicators.)			
Depth	Matrix					Features		,			
(Inches) Cold	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks	
0-10 7.5	YR 2.5/3	80						Silt Loam	Mixed matrix		
0-10 7.5	YR 3/3	20						Silt Loam	Mixed matrix		
10-16 7.5	YR 4/4	100						Silt Loam			
									•		
Tyme: C-Canaantratia	n D-Donletie	n DM-Dad	lucad Ma		Cavarad as C	Control Con	d Crains		21 anotion, DI - Dave Liv	ning M=Matrix	
Type: C=Concentration Hydric Soil Indicate								Indic	² Location: PL=Pore Lir ators for Problemat		3 .
_		Jable to a	III LIXIX	s, unies				illuic		•	э.
Histosol						andy Redo	•		2 cm Mu	, ,	,
	pipedon (A2)					tripped Mat				ent Material (TF2)	
Black His						-	y Mineral (F1) (e	except MLRA 1)		allow Dark Surfac	
	n Sulfide (A4)						ed Matrix (F2)		Other (ex	xplain in Remarks	s)
	Below Dark	•	l1)			epleted Ma					
	rk Surface (A	-					Surface (F6)		³ Indicators of hydrophy	tic vegetation an	d wetland
Sandy M	ucky Mineral	(S1)			D	epleted Da	rk Surface (F7)		hydrology must be pre		
Sandy G	leyed Matrix (S4)			R	ledox Depre	essions (F8)		prob	olematic.	
Type: Depth (inches):								Hydric Soil Pres	sent? Yes	No	X
Type: Depth (inches): Remarks: HYDROLOGY								Hydric Soil Pres	sent? Yes	No	X
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology								Hydric Soil Pres			
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (in	minimum of		ired; ch	eck all th		Vator stains			Secondary Indicate	ors (2 or more	required)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i	minimum of Water (A1)	one requi	ired; ch	eck all th	W	√ater staine	d Leaves (B9) (I		Secondary Indicate		required)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (inches) Surface V High Wa	minimum of Water (A1) ter Table (A2)	one requi	ired; ch	eck all th		, 2, 4A, and	d Leaves (B9) (I I 4B)		Secondary Indicate Water st	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B)	required)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (in Surface to High Wa Saturation)	minimum of Water (A1) ter Table (A2) on (A3)	one requi	ired; ch	eck all th		, 2, 4A, and alt Crust (B	d Leaves (B9) (I 14B)		Secondary Indicate Water st (MLRA1	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B)	required)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (inches): Surface inches High Water Mater	minimum of Water (A1) ter Table (A2) on (A3) arks (B1)	one requi	ired; ch	eck all th		, 2, 4A, and alt Crust (B	d Leaves (B9) (I I 4B) 11) 11) rtebrates (B13)		Secondary Indicate Water st (MLRA1	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B) e Patterns (B10) son Water Table	required)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i Surface V High Wa Saturatio Water M: Sedimen	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)	one requi	ired; ch	eck all th	W S A H	, 2, 4A, and ealt Crust (B quatic Invel lydrogen Su	d Leaves (B9) (I 1 4B) 11) rtebrates (B13) ulfide Odor (C1)	Except MLRA	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas	ors (2 or more alined Leaves (BS I, 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aeric	required))) (C2) al Imagery
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (in Surface in High Wa Saturation Water Min Sediment Drift Dep	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3)	one requi	ired; ch	eck all th	M 1, S A A	, 2 , 4A , and alt Crust (B quatic Inversity dydrogen Su Oxidized Rhi	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along	Except MLRA g Living Roots (C3)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2)	required))) (C2) al Imagery
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (inches): Surface inches High Water Mater	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) t or Crust (B4	one requi	ired; ch	eck all th	M 1, S A A H O O P	, 2, 4A, and latt Crust (B land Crust (B lan	d Leaves (B9) (I I 4B) 11) rtebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C	Except MLRA g Living Roots (C3)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatic Geomory Shallow	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aericohic Position (D2) Aquitard (D3)	required))) (C2) al Imagery
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i Surface V High Wa Saturatio Water Marcon Marc	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5)	one requi	ired; ch	eck all th	M 1, S A A H O P R	, 2, 4A, and alt Crust (B quatic Inverse lydrogen Su exidized Rhi dresence of decent Iron I	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2)	required) (C2) al Imagery
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i Surface i High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma Iron Depi	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) t or Crust (B4	one requi) 2))		eck all th	M 1, S A A H O O P R S	alt Crust (Budatic Inveiligence Substitution of State of	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A	ors (2 or more ained Leaves (BS 1, 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2) Aquitard (D3) tral Test (D5)	required) (C2) al Imagery (LRR A)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (inches): High Wassaturation Water Management Drift Depton Algal Management Iron Depton Surface Standard Company Algal Management Inundation	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) Soil Cracks (E3)	one requi 2) 36) Aerial Image	ery (B7)		M 1, S A A H O O P R S	alt Crust (Budatic Inveiligence Substitution of State of	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A	ors (2 or more gained Leaves (BS), 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2), Aquitard (D3) tral Test (D5) ant Mounds (D6)	required) (C2) al Imagery (LRR A)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i Surface v High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma Iron Dept Surface s Inundatic Sparsely	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) t or Crust (B4) osits (B5) Soil Cracks (E on Visible on A	one requi 2) 36) Aerial Image	ery (B7)		M 1, S A A H O O P R S	alt Crust (Budatic Inveiligence Substitution of State of	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A	ors (2 or more gained Leaves (BS), 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2), Aquitard (D3) tral Test (D5) ant Mounds (D6)	required) (C2) al Imagery (LRR A)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (inches): High Wassaturation Water Management Drift Depton Algal Management Iron Depton Surface	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) at or Crust (B4) osits (B5) Soil Cracks (E on Visible on A Vegetated Co	one requi 2) 36) Aerial Image	ery (B7) face (B8)	M 1, S A A H O P R S O O	alt Crust (Buquatic Inversed States of States	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A	ors (2 or more gained Leaves (BS), 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2), Aquitard (D3) tral Test (D5) ant Mounds (D6)	required) (C2) al Imagery (LRR A)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i Surface V High Wa Saturatio Water Manage Mana	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) at or Crust (B4) osits (B5) Soil Cracks (E on Visible on A Vegetated Co ? Yes	one requi 2) 36) Aerial Image	ery (B7) face (B8) X	M 1, S A A H O O P R S O O Depth (iii	alt Crust (Budatic Inveilydrogen Subxidized Rhidresence of decent Iron Intunted or Subther (Explainments):	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks)	g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A	ors (2 or more gained Leaves (BS), 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2), Aquitard (D3) tral Test (D5) ant Mounds (D6)	required) (C2) al Imagery (LRR A)
High Wa Saturatio Water Mi Sedimen Drift Dep Algal Ma Iron Dep Surface S Inundatio Sparsely Field Observations Surface Water Present: Water Table Present?	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) t or Crust (B4) osits (B5) Soil Cracks (E on Visible on A Vegetated Co : ? Yes Yes	one requi 2) 36) Aerial Image	ery (B7) face (B8 No No) 	M 1, S A A H O O P R S O O Depth (ii Depth (ii	alt Crust (Budatic Inverse of Accent Iron Intunted or Subther (Explanation): and the control of the control of Accent Iron Intunted or Subther (Explanation): and the control of Accent Iron Intunted or Subther (Explanation): and the control of Accent Iron Intunted or Subther (Explanation): and the control of Accent Iron Intuition Intuition Iron Intuition Iron Intuition Iron Iron Iron Iron Iron Iron Iron Ir	d Leaves (B9) (I I 4B) 11) Itebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks)	g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A Frost-He	ors (2 or more ained Leaves (BS I, 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aericohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) wave Hummocks (required) (C2) al Imagery (LRR A) (D7)
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (i Surface V High Wa Saturatio Water Manage Mana	minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B3) at or Crust (B4) osits (B5) Soil Cracks (E on Visible on A Vegetated Co ? Yes	one requi 2) 36) Aerial Image	ery (B7) face (B8) X	M 1, S A A H O O P R S O O Depth (iii	alt Crust (Budatic Inverse of Accent Iron Intunted or Subther (Explanation): and the control of the control of Accent Iron Intunted or Subther (Explanation): and the control of Accent Iron Intunted or Subther (Explanation): and the control of Accent Iron Intunted or Subther (Explanation): and the control of Accent Iron Intuition Intuition Iron Intuition Iron Intuition Iron Iron Iron Iron Iron Iron Iron Ir	d Leaves (B9) (I I 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks)	g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicate Water st (MLRA1 Drainage Dry-Seas Saturatio Geomory Shallow Fac-Neu Raised A	ors (2 or more gained Leaves (BS), 2, 4A, and 4B) e Patterns (B10) son Water Table on Visible on Aerichic Position (D2), Aquitard (D3) tral Test (D5) ant Mounds (D6)	required) (C2) al Imagery (LRR A)

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Project/Site:	Ice Ag	e Drive		City/County:	Sherwo	ood/Washington	Sampling	Date:	4/14/	2023
Applicant/Owner:	City of She	rwood				State:	OR	S	ampling Point:	5
Investigator(s):		TF		Section, To	wnship, Range:		28D 2	2S 1W	· • <u>-</u>	
Landform (hillslope, te	errace, etc.:)		Slope	_	· -	ncave, convex, none):	Non	е	Slope (%):	1
Subregion (LRR):	•	Α		Lat:	45.3612	283° Long:	-122.81	5638°	Datum:	WGS84
Soil Map Unit Name:			wood silt loa	— am, 3 to 7 perce			assification:		– – None	
Are climatic/hydrologic					Yes	No		no. explai	n in Remarks)	
Are vegetation	Soil		drology	significantly dist		Are "Normal Circumstan		•	N	
Are vegetation	Soil	•	drology			, explain any answers in Re	•	(1/14)		
7 tre vegetation		- 01119		natarany problem	natio: il riccaca	, explain any answers in re	marks.)			
SUMMARY OF F	FINDINGS -	- Attac	h site map	showing san	pling point	locations, transect	s, importar	t featu	res, etc.	
Hydrophytic Vegetatio	on Present?	Yes	X N	0						
Hydric Soil Present?		Yes	N	X	Is Sampled Ar a Wetlar	\ \		N	o X	
Wetland Hydrology Pr	resent?	Yes	N ₀	o X						
Remarks:		_		·						
	sis for the	3 month	s prior to fi	eld work resulte	ed in Normal o	conditions. At 5.72 inc	hes howeve	r, rainfa	II over the tw	o weeks prior
to field work was	significantly	y above	normal (see	report Section	C). As such,	site conditions were a	ssumed we	tter than	normal.	
VEGETATION -	Use scient	ific nan	nes of plar	nts.						
1			absolute	Dominant	Indicator	Dominance Test wo	rksheet:			
Tree Stratum (plot :	size.)	% cover	Species?	Status	Number of Dominant Spe	ocios			
1		′				That are OBL, FACW, or			1 ((A)
2										<i>(</i>
3						Total Number of Domina	nt			
4				·		Species Across All Strata	:		1 ((B)
			0	= Total Cover						
Sapling/Shrub Stratun	<u>n</u> (plot size:)			Percent of Dominant Spe	cies			
1			_'			That are OBL, FACW, o		10	00% (A/B)
2						, ,				,
3						Prevalence Index W	orksheet:			
4						Total % Cover of	М	ıltiply by:	_	
5						OBL Species		x 1 =	0	
			0	= Total Cover		FACW species		x 2 =	0	
Herb Stratum (plot :	oi - o.	5)				FAC Species		x 3 =	0	
Herb Stratum (plot :		,	95	X	(FAC)	FACU Species UPL Species		x 4 = x 5 =	0	
2 Trifolium spec			5		(FAC)	Column Totals	0 (A			В)
3 Hypochaeris r			3		FACU	Goldmir Totals	(/\	,		<i>D</i>)
4 Leucanthemui			2	-	FACU	Prevalence Index =	B/A =	#D	IV/0!	
5							_			
6						Hydrophytic Vegetat	ion Indicato	rs:		
7							1- Rapid Test	for Hydrop	hytic Vegetation	
8						Х	2- Dominance	Test is >5	50%	
			105	= Total Cover			3-Prevalence			e.
\\\ a a d \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(plot size:		,						tions ¹ (provide su	
Woody Vine Stratum	(piot size:		_'				5- Wetland No		separate sheet)	
1									เกษาสกเร : Vegetation ¹ (Ex	rplain)
			0	= Total Cover		Indicators of hydric soil a				
				- Total Covel		disturbed or problematic.	a wouding ily	gy iill	ace so proserie, u	555
			_			Hydrophytic				
% Bare Ground in Her	rb Stratum		0			Hydrophytic Vegetation Present?	Yes	х	No_	

			PHS#		131			Sampling Point:	5
Profile Descr	iption: (Describe to t	he depth r	needed to docu	ment the indi	cator or con	firm the absen	ce of indicators.)		
Depth	Matrix				x Features	. 2			
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	irks
0-4	7.5YR 2.5/2	100					Silt Loam		
4-18	7.5YR 2.5/3	100					Silt Loam		
				_					
	<u></u> -								
	· ·			_					
	centration, D=Depletion							² Location: PL=Pore Lining,	
ydric Soil	Indicators: (Appli	cable to	all LRRs, un	ess otherw	ise noted.)		Indic	cators for Problematic Hy	ydric Soils [*] :
	Histosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A	10)
	Histic Epipedon (A2)				Stripped Mat	trix (S6)		Red Parent M	laterial (TF2)
	Black Histic (A3)				Loamy Muck	y Mineral (F1) (e	except MLRA 1)	Very Shallow	Dark Surface (TF12)
	Hydrogen Sulfide (A4)			Loamy Gleye	ed Matrix (F2)		Other (explain	n in Remarks)
	Depleted Below Dark	Surface (A	.11)		Depleted Ma	ıtrix (F3)			
	Thick Dark Surface (A	A12)			Redox Dark	Surface (F6)			
	Sandy Mucky Mineral	(S1)				rk Surface (F7)		³ Indicators of hydrophytic ve	•
	Sandy Gleyed Matrix	. ,			Redox Depre	, ,		hydrology must be present problema	
	Layer (if present):				•		Ī		
epth (inche	s):				-		Hydric Soil Pre	sent? Yes	No X
Depth (inche					-		Hydric Soil Pre	sent? Yes	No X
Depth (inchesternarks: HYDROLC Vetland Hy	OGY rdrology Indicators				- -		Hydric Soil Pre	sent? Yes	No X
Depth (inchesternarks: HYDROLC Vetland Hy	OGY		uired; check a	117				Secondary Indicators (2	
Pepth (inchesternarks: HYDROLC Vetland Hy Primary Indi	OGY rdrology Indicators		uired; check a	117	Water staine	nd Leaves (B9) (I		Secondary Indicators (:	2 or more required)
Primary Indi	OGY rdrology Indicators cators (minimum o	f one requ	uired; check a	117				Secondary Indicators (2	2 or more required)
emarks: IYDROLC Vetland Hy	OGY rdrology Indicators cators (minimum o Surface Water (A1)	f one requ	uired; check a	117	Water staine	d 4B)		Secondary Indicators (:	2 or more required) I Leaves (B9) IA, and 4B)
emarks: IYDROLC Vetland Hy rimary Indi	OGY rdrology Indicators cators (minimum of Surface Water (A1) High Water Table (A2)	f one requ	uired; check a	117	Water staine 1, 2, 4A, and Salt Crust (B	d 4B)		Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt	2 or more required) I Leaves (B9) IA, and 4B)
emarks: IYDROLC Vetland Hy	ody drology Indicators cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3)	f one requ	uired; check a	117	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve	d 4B) 311)		Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2)
Pepth (inchesemarks: HYDROLC Vetland Hy Primary Indi	ody cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	f one requ	uired; check a	117	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St	at 4B) st11) rtebrates (B13) ulfide Odor (C1)		Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W	2 or more required) I Leaves (B9) IA, and 4B) terns (B10) Vater Table (C2) sible on Aerial Imagery (
Pepth (inchesemarks: IYDROLC Vetland Hy Primary Indi	cators (minimum or Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	f one requ	uired; check a		Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi	at 4B) st11) rtebrates (B13) ulfide Odor (C1)	Except MLRA g Living Roots (C3)	Secondary Indicators (; Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis	2 or more required) I Leaves (B9) IA, and 4B) Iderns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2)
HYDROLC Vetland Hy	cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	f one requ	uired; check a		Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of	at 4B) rtebrates (B13) ulfide Odor (C1) izospheres along	Except MLRA g Living Roots (C3)	Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Iterd (D3)
Pepth (inchesternance) Permarks: HYDROLC Vetland 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)	f one requ 2) 32) 4)	uired; check a		Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron	14B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Iterna (D3)
Pepth (inchestemarks: HYDROLC Vetland 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 requests 2) 32) 4) B6)			Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S	14B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (; Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) ard (D3) Fest (D5)
Pepth (inchesemarks: IYDROLC Vetland Hy Primary Indi	cators (minimum or 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	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7)		Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S	at 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (; Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Leard (D3) Test (D5) Test (D6) (LRR A)
Pepth (inchesternarks: HYDROLC Vetland 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 (Inundation Visible on Sparsely Vegetated C	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7)		Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S	at 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (; Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Leard (D3) Test (D5) Test (D6) (LRR A)
Pepth (inchesemarks: IYDROLC Vetland Hy Primary Indi	cators (minimum or 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 Corvations:	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) Irface (B8)		Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S Other (Expla	at 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I	Except MLRA g Living Roots (C3) (24) wed Soils (C6)	Secondary Indicators (; Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Leard (D3) Test (D5) Test (D6) (LRR A)
Pepth (inchesternation) Remarks: HYDROLC Vetland Hy Primary Indi Field Observations with a control of the	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 Corvations:	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8) No <u>X</u>	Depth	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S Other (Explai	at 4B) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks)	g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Me Frost-Heave F	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Lard (D3) Test (D5) Test (D6) (LRR A)
Pepth (inchesternarks: HYDROLC Vetland Hy Primary Indi Field Observator Water Vater Table F	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: Teresent? Yes	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) Irface (B8) No X No X	Depth	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S Other (Expla	at 4B) strip at the strip at th	g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2) Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo Frost-Heave F	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Lard (D3) Lest (D5) Leaved (D6) (LRR A) Industrial Imagery (D7)
Pepth (inchesternarks: HYDROLC Vetland Hy Primary Indi Field Observator Table Field Vater Table Field Primary Indi Vater Table Field Vater Va	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: The Present? Yes esent? Yes	f one requests 2) 32) 4) B6) Aerial Imag	gery (B7) ırface (B8) No <u>X</u>	Depth	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or S Other (Explai	at 4B) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo tressed Plants (I in in Remarks)	g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A)	Secondary Indicators (2 Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Me Frost-Heave F	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Leard (D3) Test (D5) Test (D6) (LRR A)
Field Observing Water Table Fracturation Prencludes capilla Describe Reco	cators (minimum or 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 Corvations: Ir Present? Yes	f one requests 2) 32) 4) B6) Aerial Image concave Su	gery (B7) Inface (B8) No X No X No X Oring well, aeria	Depth Depth Depth	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Stunted or S Other (Explai (inches): (inches): (inches): cumulatioi	at 4B) at 11) retebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (I in in Remarks) >18 >18	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (2) Water stained (MLRA1, 2, 4) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Mo Frost-Heave F	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) Iterat (D3) Iterst (D5) Iounds (D6) (LRR A) I-lummocks (D7) No X
ield Observirface Water Table Faturation Precipitatio	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 Corvations: In Present? Yes	f one requests 2) 32) 4) B6) Aerial Image concave Su	gery (B7) Inface (B8) No X No X No X Oring well, aeria	Depth Depth Depth	Water staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Stunted or S Other (Explai (inches): (inches): (inches): cumulatioi	at 4B) at 11) retebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (I in in Remarks) >18 >18	Except MLRA g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) Wetland Hyd	Secondary Indicators (; Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant Me Frost-Heave F	2 or more required) I Leaves (B9) IA, and 4B) Iterns (B10) Vater Table (C2) Sible on Aerial Imagery Position (D2) Iterat (D3) Iterst (D5) Iounds (D6) (LRR A) I-lummocks (D7) No X

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Project/Site:	Ice Age Drive	9	City/County:	Sherwo	ood/Washington	Sampling Date:	4/14/2	023
Applicant/Owner:	City of Sherwood				State:	OR	Sampling Point:	6
Investigator(s):	TF/AS		Section, To	wnship, Range:		28D 2S 1W		
Landform (hillslope,	, terrace, etc.:)	Slope		Local relief (cor	ncave, convex, none):		Slope (%):	
Subregion (LRR):	A	-	Lat:	45.3630	001° Long:	-122.811378°	Datum:	WGS84
Soil Map Unit Name	e: X	erochrepts-Ro	- ck outcrop co	mplex	NWI Clas	sification:	None	
·	ogic conditions on the site	•	•	Yes	No	X (if no, exp	lain in Remarks)	
Are vegetation	_	Hydrology	significantly dist	urbed?	Are "Normal Circumstance	es" present? (Y/N)	N	
Are vegetation	Soil or h	Hydrology	-		, explain any answers in Ren	narks.)		
		, , ,	_			,		
SUMMARY OF	FINDINGS - Atta	ch site map	showing san	npling point	locations, transects	important feat	ures, etc.	
Hydrophytic Vegeta	tion Present? Yes	No	X	Is Sampled Ar	oa within			
Hydric Soil Present	? Yes	No	X	a Wetlar	\/		No X	
Wetland Hydrology	Present? Yes	No	Х					
Remarks:				Į.				
	•	•			conditions. At 5.72 inch	•		weeks prior
				C). As sucn,	site conditions were as	sumea wetter th	an normai.	
VEGETATION	- Use scientific na							
l		absolute % cover	Dominant Species?	Indicator Status	Dominance Test work	sheet:		
Tree Stratum (ple	ot size: 30)			Number of Dominant Spec	ies		
1 Pseudotsug	a menziesii	40	Х	FACU	That are OBL, FACW, or F	AC:	1 (A	۸)
2 Quercus gar	ryana	5		FACU			<u> </u>	
3					Total Number of Dominant			
4					Species Across All Strata:		4 (E	3)
		45	= Total Cover					
Sapling/Shrub Strat	tum (plot size: 15)			Percent of Dominant Spec	ies		
1 Symphorical	rpos albus	50	X	FACU	That are OBL, FACW, or I	FAC:	25 % (A	√B)
2 Rubus arme		10		FAC				
3 Corylus cori	nuta	5		FACU	Prevalence Index Wo			
5					Total % Cover of	Multiply by x 1 =	<u>/:</u> O	
3		65	= Total Cover		OBL Species FACW species	x 1 =	0	
			- Total Cover		FAC Species	x 3 =	0	
Herb Stratum (ple	ot size: 5)			FACU Species	x 4 =	0	
1 Unidentified	grass	40	X	(FAC)	UPL Species	x 5 =	0	
2 Geranium m		40	Х	(UPL)	Column Totals	0 (A)	0 (B)
3 Rubus ursin		15		FACU				
4 Leucaena le	· ·	10		(UPL)	Prevalence Index =B	/A =	#DIV/0!	
5 Lapsana con 6 Rumex crisp		<u> 5</u> 5		FACU FAC	Hydrophytic Vegetation	an Indicators:		
7	Jus			FAC		- Rapid Test for Hydi	conhytic Vegetation	
8						- Dominance Test is	· ·	
		115	= Total Cover			-Prevalence Index is		
					4	-Morphological Adap	tations ¹ (provide sup	porting
Woody Vine Stratur	m (plot size:)				ata in Remarks or or		
1	m (plot size:)			5	- Wetland Non-Vasc	ular Plants ¹	
	m (plot size:)			5 F	- Wetland Non-Vasc Problematic Hydrophy	ular Plants ¹ tic Vegetation ¹ (Exp	•
1	m (plot size:)	= Total Cover		5 Indicators of hydric soil an	- Wetland Non-Vasc Problematic Hydrophy	ular Plants ¹ tic Vegetation ¹ (Exp	•
1	m (plot size:	0	= Total Cover		5 F	- Wetland Non-Vasc Problematic Hydrophy	ular Plants ¹ tic Vegetation ¹ (Exp	•
1		0	= Total Cover		F Indicators of hydric soil and disturbed or problematic.	- Wetland Non-Vasc Problematic Hydrophy	ular Plants ¹ tic Vegetation ¹ (Exp	•

Profile Descrip Depth	tion: (Deceribe to	ho da:-41-	200dcd 4	numerat the	indiactor	nfirm the sheet	o of indicates		
Бериі	tion: (Describe to t Matrix	ne aeptn i	needed to do		indicator or co edox Features	ntirm the absenc	ce of indicators.)		
(Inches)	Color (moist)	%	Color (mois		1	Loc ²	Texture	Remarks	
0-8	7.5YR 2.5/2	100					Silt Loam		
8-12	7.5YR 2.5/2	50				· ·	Silt Loam	Mixed matrix	
8-12	5YR 3/4	50					Silt Loam	Mixed matrix	
12-18	5YR 3/4	100				 .	Silt Loam	mixed matrix	
12-10	311(3/4						Siit Loain		
						· ·			
Type: C=Conce	entration, D=Depletion	on, RM=Re	educed Matrix,	CS=Covere	d or Coated Sa	nd Grains.		² Location: PL=Pore Lining, M=Matrix.	
lydric Soil Ir	ndicators: (Appli	cable to	all LRRs, u	nless othe	rwise noted.	.)	Indic	cators for Problematic Hydric Soils ³ :	
н	listosol (A1)				Sandy Red	ox (S5)		2 cm Muck (A10)	
Н	listic Epipedon (A2)				Stripped Ma	atrix (S6)		Red Parent Material (TF2)	
В	lack Histic (A3)				Loamy Muc	ky Mineral (F1) (e	xcept MLRA 1)	Very Shallow Dark Surface (TF	12)
	ydrogen Sulfide (A4	.)			Loamy Gley	ed Matrix (F2)		Other (explain in Remarks)	
-	epleted Below Dark		\11)		Depleted M	• •			
	hick Dark Surface (A	`	,			Surface (F6)			
	andy Mucky Mineral	•				ark Surface (F7)		³ Indicators of hydrophytic vegetation and wetl	
	andy Gleyed Matrix			-		ressions (F8)		hydrology must be present, unless disturbed problematic.	or
Depth (inches)					<u> </u>		Hydric Soil Pre	sent? Yes NoX	
Type: Depth (inches) Remarks: HYDROLOG Wetland Hyd	3Y	s:					Hydric Soil Pre	sent? Yes NoX	
Depth (inches) Remarks: HYDROLOG Wetland Hyd			uired; check	all that ap	ply)		Hydric Soil Pre	Secondary Indicators (2 or more requi	red)
Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica	GY rology Indicator		uired; check	all that ap	Water stain	ed Leaves (B9) (E		Secondary Indicators (2 or more requi	red)
Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica	GY rology Indicator ators (minimum o	f one req	uired; check	all that ap		ed Leaves (B9) (E		Secondary Indicators (2 or more requi	red)
Depth (inches) Remarks: HYDROLOG Wetland Hyd Primary Indica	GY rology Indicator ators (minimum o urface Water (A1)	f one req	uired; check	all that ap	Water stain	ed Leaves (B9) (E ld 4B)		Secondary Indicators (2 or more requi	red)
Primary Indicates September 1	rology Indicator ators (minimum o urface Water (A1) igh Water Table (A2	f one req	uired; check	all that ap	Water stain 1, 2, 4A, an Salt Crust (ed Leaves (B9) (E ld 4B)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)	red)
Primary Indicates S Wetland Hyde Primary Indicates S Wetland Hyde S	rology Indicator ators (minimum o urface Water (A1) ligh Water Table (A2 aturation (A3)	f one req	uired; check	all that ap	Water stain 1, 2, 4A, an Salt Crust (I	ed Leaves (B9) (E d 4B) B11)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)	
Primary Indicases HYDROLOG Wetland Hyd Primary Indicases H S W S	rology Indicator ators (minimum o urface Water (A1) igh Water Table (A2 aturation (A3) /ater Marks (B1)	f one req	uired; check	all that ap	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Inve	ed Leaves (B9) (End 4B) B11) ertebrates (B13) Sulfide Odor (C1)		Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	
Primary Indicates S Wetland Hyd Primary Indicates S W S D	rology Indicator ators (minimum o urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) ediment Deposits (E	f one req	uired; check	all that ap	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invo Hydrogen S Oxidized Rh	ed Leaves (B9) (End 4B) B11) ertebrates (B13) Sulfide Odor (C1)	Except MLRA	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima	•
Primary Indicates S Wetland Hyde S Wetland Hyde S A A	rology Indicator ators (minimum o urface Water (A1) ligh Water Table (A2 aturation (A3) //ater Marks (B1) ediment Deposits (B3)	f one req	uired; check	all that ap	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invention Hydrogen S Oxidized Rh Presence o	ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along	Except MLRA Living Roots (C3)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Image Geomorphic Position (D2)	•
Primary Indicates September 1997 Sep	rology Indicator ators (minimum o urface Water (A1) ligh Water Table (A2 aturation (A3) //ater Marks (B1) ediment Deposits (B3) Igal Mat or Crust (B4)	f one req 2) 32) 4)	uired; check	all that ap	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invented Invente	ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres along f Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima Geomorphic Position (D2) Shallow Aquitard (D3)	gery (
Primary Indicates S A B C C C C C C C C C C C C	ators (minimum o urface Water (A1) ligh Water Table (A2 aturation (A3) Vater Marks (B1) ediment Deposits (B3) lgal Mat or Crust (B4 on Deposits (B5)	f one req 2) 32) 4) B6) Aerial Ima	gery (B7)	all that ap	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S	ed Leaves (B9) (End 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)	gery (
Primary Indicates September 19	ators (minimum of urface Water (A1) atoration (A3) water Marks (B1) addiment Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (mundation Visible on parsely Vegetated C	f one req 2) 32) 4) B6) Aerial Ima	gery (B7)	all that ap	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S	ed Leaves (B9) (End 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres along f Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	gery (
Primary Indicates S A Primary Indicates S W S Ir S Ir S Field Observ	rology Indicator ators (minimum o 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 (nundation Visible on parsely Vegetated C	f one req 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8)		Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invented in the state of the stain of the stai	ed Leaves (B9) (End 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres along f Reduced Iron (C	Except MLRA Living Roots (C3) Living Roots (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	gery (
Primary Indicates Solution A A Ir Solution Surface Water Feet Surface Surface Water Feet Surface Surface Water Feet Surface Surface Water Feet Surface Surf	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 (mindation Visible on parsely Vegetated Cations: Present? Yes	f one req 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8) No <u>X</u>	De	Water stain 1, 2, 4A, an Salt Crust (i Aquatic Invo Hydrogen S Oxidized Rt Presence o Recent Iron Stunted or S Other (Expl.	ed Leaves (B9) (End 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plot Stressed Plants (E	Except MLRA J Living Roots (C3) J Living Roots (C3) J Living Roots (C6) J Living Roots (C6) J Living Roots (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	gery (
HYDROLOG Wetland Hyd Primary Indica S W S In In In	ators (minimum of urface Water (A1) atoration (A3) water Marks (B1) adding to Deposits (B3) and Deposits (B4) are Soil Cracks (bundation Visible on parsely Vegetated Cations: Present? Yes sent? Yes ators (Minimum of Cracks)	f one req 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8)	De De	Water stain 1, 2, 4A, an Salt Crust (I Aquatic Invented in the state of the stain of the stai	ed Leaves (B9) (End 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres along f Reduced Iron (C	Except MLRA J Living Roots (C3) J Living Roots (C3) J Living Roots (C6) J Living Roots (C6) J Living Roots (C6)	Secondary Indicators (2 or more requi Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	gery (

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Project/Site:	Ice Age Driv	e	City/County:	Sherw	ood/Washington	Sam	pling Date:	4/14	1/2023
Applicant/Owner:	City of Sherwood				State	OR		Sampling Point:	7
Investigator(s):	TF/AS		Section, To	wnship, Range:		28	BD 2S 1W		
Landform (hillslope, t	terrace, etc.:)	Slope	_	Local relief (co	ncave, convex, none):			Slope (%):	
Subregion (LRR):	A		Lat:	45.363	055° Long	: -122	.811413°	 Datum:	WGS84
Soil Map Unit Name:	×	erochrepts-Ro	- ck outcrop co	mplex	NWI C	lassification	:	— PFO	
•	ic conditions on the site	•	•	Yes	No.			ain in Remarks)	
Are vegetation		Hydrology	significantly dist	urbed?	Are "Normal Circumsta		- ` '	N	
Are vegetation		Hydrology	-		I, explain any answers in F	•	(')		
	_				,, explain any anemole in i				
SUMMARY OF	FINDINGS - Atta	ach site map	showing san	npling point	locations, transec	ts, impoi	tant feat	ıres, etc.	
Hydrophytic Vegetati	on Present? Yes	X No		- 0 A-					
Hydric Soil Present?	Yes	X No		Is Sampled A		sX		No	
Wetland Hydrology P	Present? Yes	X No					-		
Remarks:									
The DAREM anal	-				conditions. At 5.72 in				vo weeks prior
to field work was	s significantly abov	e normal (see	report Section	C). As such,	site conditions were	assumed	wetter tha	n normal.	
VEGETATION -	Use scientific n	ames of plant	s.						
		absolute % cover	Dominant Species?	Indicator Status	Dominance Test wo	orksheet:			
Tree Stratum (plot	t size: 30) 76 COVE	Species?	Status	Number of Dominant Sp	necies			
1 Fraxinus latife		-′ 55	X	FACW	That are OBL, FACW, of			3	(A)
2	<u> </u>								(* ')
3					Total Number of Domina	ant			
4					Species Across All Stra	ta:		4	(B)
		55	= Total Cover						
Sapling/Shrub Stratu	ım (plot size: 15)			Percent of Dominant Sp	ecies			
1 Rubus armen		—′ 2		FAC	That are OBL, FACW,			75%	(A/B)
2 Symphoricary		2		FACU					,
3					Prevalence Index V	/orksheet	:		
4					Total % Cover of	_	Multiply by:		
5					OBL Species		x 1 =	0	
		4	= Total Cover		FACW species		x 2 =	0	
	taine. F	`			FAC Species		x 3 =	0	
Herb Stratum (plot 1 Geranium mo	t size: 5	_ ⁾ 30	X	UPL	FACU Species		_ x4=	0	
2 Ranunculus r		20	X	FAC	UPL Species Column Totals		x 5 = (A)	0	(B)
3 Unidentified		20	X	(FAC)	Column Totals		_ (^)		(D)
4 Rumex crispu		5		FAC	Prevalence Index	=B/A =	#	DIV/0!	
5 Ranunculus o		5		FACW					
6					Hydrophytic Vegeta	tion Indic	ators:		
7						1- Rapid T	est for Hydro	phytic Vegetatio	n
8					Х	2- Domina	nce Test is >	> 50%	
		80	= Total Cover			_	nce Index is		
		,				_		ations ¹ (provide s	
Woody Vine Stratum	(plot size:)						a separate sheet	t)
	·					_	d Non-Vascu		
1									
			- Tot-l O		Indicators of hydric11	_		ic Vegetation ¹ (E	
1			= Total Cover		¹ Indicators of hydric soil disturbed or problematic	and wetland		-	
1		0	= Total Cover		disturbed or problemation Hydrophytic	and wetland		-	
1	erb Stratum	0	= Total Cover		disturbed or problemation	and wetland	d hydrology r	-	unless

7-12 7-16	Matrix Color (moist) 7.5YR 2.5/2	he depth						Sampling Point: 7
(Inches) 0-7 7-12 7-12	Color (moist) 7.5YR 2.5/2		needed to docume	nt the indica	ator or cor	firm the absen	ce of indicators.)	
0-7 7-12 7-12	7.5YR 2.5/2			Redox F	Features			
7-12 7-12		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
7-12		90	5YR 3/4	10	С	M	Silt Loam	Fine
	7.5YR 3/4	60					Silt Loam	
12-16	7.5YR 2.5/2	40					Silt Loam	
	7.5YR 3/4	100					Silt Loam	-
							Oilt 20uiii	
ivno: C=Conoo	ntration D-Danlatic	on DM-Da	educed Matrix, CS=0	Covered or C	Control Con	d Craina		² Location: PL=Pore Lining, M=Matrix.
			all LRRs, unless				Indic	cators for Problematic Hydric Soils ³ :
-	stosol (A1)				andy Redo			2 cm Muck (A10)
	stic Epipedon (A2)				tripped Ma			Red Parent Material (TF2)
						,	event MI BA 41	
	ack Histic (A3)				-	xy Mineral (F1) (e	жері міска 1)	Very Shallow Dark Surface (TF12)
	drogen Sulfide (A4					ed Matrix (F2)		Other (explain in Remarks)
De	epleted Below Dark	Surface (A	N11)		epleted Ma			
Th	ick Dark Surface (A	(12)		XR	edox Dark	Surface (F6)		3
Sa	andy Mucky Mineral	(S1)		D	epleted Da	rk Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
Sa	andy Gleyed Matrix	(S4)		R	edox Depre	essions (F8)		problematic.
YDROLOG	iY ology Indicators	s:						
_	tors (minimum o	f one req	uired; check all th	nat apply)				Secondary Indicators (2 or more required)
rimary Indica	urface Water (A1)		uired; check all th	w		ed Leaves (B9) (Except MLRA	Water stained Leaves (B9)
rimary Indica	urface Water (A1) gh Water Table (A2		uired; check all th	W	, 2, 4A, and	d 4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
rimary Indicat Su X High	urface Water (A1) gh Water Table (A2 aturation (A3)		uired; check all th	W 1, Sa	, 2, 4A , and alt Crust (E	d 4B) 311)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
rimary Indicate Su X Hig X Sa	urface Water (A1) gh Water Table (A2		uired; check all th	W 1, Sa	, 2, 4A , and alt Crust (E	d 4B)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
x High	urface Water (A1) gh Water Table (A2 aturation (A3)	.)	uired; check all th	W 1, SaAd	, 2, 4A , and alt Crust (E quatic Inve	d 4B) 311)	Except MLRA	Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
X Sa Wa	urface Water (A1) gh Water Table (A2 aturation (A3) ater Marks (B1)	.)	uired; check all th	W 1, Sa Ad	, 2, 4A, and alt Crust (E quatic Inve	d 4B) d11) rtebrates (B13) ulfide 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
X Hiç X Sa Wa Se	urface Water (A1) gh Water Table (A2 aturation (A3) ater Marks (B1) ediment Deposits (B		uired; check all th		, 2, 4A, and alt Crust (E quatic Inve lydrogen So exidized Rh	d 4B) d11) rtebrates (B13) ulfide 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
X Hiç X Sa Wa Se Dri	urface Water (A1) gh Water Table (A2 aturation (A3) ater Marks (B1) ediment Deposits (B ift Deposits (B3)		uired; check all th	W 1, Si Ar	alt Crust (E quatic Inversed ydrogen Su xidized Rh resence of	at 4B) rtebrates (B13) ulfide Odor (C1) izospheres 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 Geomorphic Position (D2)
x Sa X Sa Se Dri	urface Water (A1) gh Water Table (A2 aturation (A3) ater Marks (B1) ediment Deposits (B ift Deposits (B3) gal Mat or Crust (B4	2)	uired; check all th	W 1, Si Ai X H; O Pi	alt Crust (E quatic Inve ydrogen Su exidized Rh resence of ecent Iron	14B) 111) rtebrates (B13) ulfide Odor (C1) izospheres 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 Geomorphic Position (D2) Shallow Aquitard (D3)
x Hiệ X Sa Se Dri	urface Water (A1) gh Water Table (A2 aturation (A3) ater Marks (B1) adiment Deposits (B3) gal Mat or Crust (B4) on Deposits (B5)	.) (2) (3)		W N N N N N N N N N	alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron tunted or S	14B) 111) rtebrates (B13) ulfide Odor (C1) izospheres 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 Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
X Hig X Sa Se Dri Alg	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 (I	.) (2) (4) (36) (36) (36)	gery (B7)	W N N N N N N N N N	alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron tunted or S	at 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot	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)
x Hig X Sa Wa Se Dri Alg Iro Su Int.	urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) ediment Deposits (B3) gal Mat or Crust (B4) urface Soil Cracks (I undation Visible on parsely Vegetated C	.) (2) (4) (36) (36) (36)	gery (B7)	W N N N N N N N N N	alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron tunted or S	at 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot	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)
X Hig X Sa Wa Se Dri Alg Iro Su Inu Sp	urface Water (A1) gh Water Table (A2 aturation (A3) ater Marks (B1) adiment Deposits (B3) gal Mat or Crust (B4 on Deposits (B5) urface Soil Cracks (I undation Visible on parsely Vegetated C	.) (2) (4) (36) (36) (36)	gery (B7) urface (B8)	W 1, Si Ar	alt Crust (E quatic Inve ydrogen St exidized Rh resence of ecent Iron tunted or S other (Expla	at 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot	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)
X Hiç X Sa Va Se Dri Alc Iro Su Inu Sp ield Observa	urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B3) gal Mat or Crust (B4) an Deposits (B5) urface Soil Cracks (I undation Visible on barsely Vegetated C ations: resent? Yes	2) 3) 36) Aerial Ima ooncave Si	gery (B7) urface (B8) No <u>X</u>	W 1, 1, Si Ai X H: O Pi Ri Si O Depth (ir	alt Crust (E quatic Inve ydrogen Si exidized Rh resence of eccent Iron tunted or S other (Explainches):	at 4B) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (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)
X Hig X Sa Wa Se Dri Alg Iro Su Inu Sp ield Observa	urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) ediment Deposits (B3) gal Mat or Crust (B4) urface Soil Cracks (I) undation Visible on parsely Vegetated C ations: resent? Yes sent? Yes	2) 2) 36) Aerial Ima concave St	gery (B7) urface (B8) NoX No	W 1, 1, Si Air Air Air Air Air Air Air Air Air Ai	alt Crust (E quatic Inverse ydrogen State of the cent Iron tunted or State of the cent Iron tunted	at 4B) ritebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (i 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 (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
X Hig X Sa Wa Se Dri Alg Iro Su Inu Sp	urface Water (A1) gh Water Table (A2) aturation (A3) ater Marks (B1) adiment Deposits (B3) gal Mat or Crust (B4) urface Soil Cracks (I) undation Visible on parsely Vegetated C ations: resent? Yes sent? Yes urface Water (A2)	2) 3) 36) Aerial Ima ooncave Si	gery (B7) urface (B8) No <u>X</u>	W 1, 1, Si Ai X H: O Pi Ri Si O Depth (ir	alt Crust (E quatic Inverse ydrogen State of the cent Iron tunted or State of the cent Iron tunted	at 4B) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (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)

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Project/Site:	Ice Age Drive		City/County:	Sherw	ood/Washington	San	npling Date:	4/14	/2023
Applicant/Owner: Cit	y of Sherwood				Stat	e: OR		Sampling Point:	8
Investigator(s):	TF/AS		Section, To	wnship, Range:		2	8D 2S 1W	•	
Landform (hillslope, terrac	e, etc.:)	Slope	•	Local relief (co	ncave, convex, none):			Slope (%):	
Subregion (LRR):	A		Lat:	45.3620	654° Lon	g: -12 2	2.811995°	Datum:	WGS84
Soil Map Unit Name:	Xe	rochrepts-Roc	- ck outcrop co	mplex	NWI	Classification	n:	None	
Are climatic/hydrologic cor		•		Yes		lo X		in in Remarks)	
		/drology	significantly dist		Are "Normal Circumst		_ ```	N	
			_		I, explain any answers in	•	211C: (171 4)		
Are vegetation S	oil or H	ydrology	naturally proble	mauc? II needed	i, explain any answers in	Remarks.)			
SUMMARY OF FINI	DINGS - Attac	ch site map s	showing sar	npling point	locations, transec	cts, impo	rtant featu	ıres, etc.	
Hydrophytic Vegetation Pr	esent? Yes	No	Х						
Hydric Soil Present?	Yes	No	X	Is Sampled Ar		es	1	No X	
Wetland Hydrology Preser	nt? Yes	No	x	a Wetiai	iiu :		_		
	<u>-</u>								
Remarks: The DAREM analysis	for the 3 month	ns prior to fiel	d work result	ed in Normal	conditions. At 5.72 in	nches hov	vever, rainf	all over the tw	o weeks prior
to field work was sign		•							
VEGETATION - Use	scientific na	mes of plant	<u> </u>						
<u></u>		absolute	Dominant	Indicator	Dominance Test w	orksheet:			
		% cover	Species?	Status					
Tree Stratum (plot size:	30)			Number of Dominant S	pecies			
1 Arbutus menziesi	i	40	X	UPL	That are OBL, FACW,	or FAC:		2	(A)
2 Pseudotsuga mer		35	X	FACU					
3 Quercus garryana	1	15		FACU	Total Number of Domii			_	
4					Species Across All Stra	ata:		6	(B)
		90	= Total Cover						
Sapling/Shrub Stratum	(plot size: 15	_)			Percent of Dominant S	pecies			
1 Mahonia nervosa		10	X	FACU	That are OBL, FACW,	or FAC:		33%	(A/B)
2 Rubus armeniacu	s	5	X	FAC					
3					Prevalence Index	Workshee	t:		
4					Total % Cover of	_	Multiply by:		
5					OBL Species		x 1 =	0	
		15	= Total Cover		FACW species FAC Species		_ x2 = x3 =	0	
Herb Stratum (plot size:	5)			FACU Species		_ x4=	0	
1 Geranium molle		40	X	UPL	UPL Species	-	_ x5=	0	
2 Holcus lanatus		30	X	FAC	Column Totals	0	(A)	0	(B)
3 Unidentified grass	<u> </u>	20		(FAC)			_``		. ,
4 Dactylis glomerat	a	15		FACU	Prevalence Index	c =B/A =	#	DIV/0!	
5 Schedonorus arui	ndinaceus	5		FAC					
6					Hydrophytic Veget	ation Indi	cators:		
7						1- Rapid	Test for Hydro	phytic Vegetation	ı
8						2- Domin	ance Test is >	50%	
		110	= Total Cover				nce Index is		
	-4-:	`				_ `		ations ¹ (provide s	•
Woody Vine Stratum (pl	ot size: 5	_'						a separate sheet)
, ,		2		FAC			id Non-Vascu		(mlain)
1 Toxicodendron di	versilobum					Problema	uc myarophyt	c Vegetation ¹ (E	кріаіп)
, ,	versilobum		- T-1 C		1 Indicators of building	_	.d bud==1:	- '	
1 Toxicodendron di	versilobum	2	= Total Cover		¹ Indicators of hydric so disturbed or problemat	 il and wetlan	d hydrology n	- '	
1 Toxicodendron di	versilobum		= Total Cover		¹ Indicators of hydric so disturbed or problemat Hydrophytic	 il and wetlan	d hydrology n	- '	
1 Toxicodendron di			= Total Cover		disturbed or problemat	 il and wetlan	, 0,	- '	

SLULIID I IDECL	iption: (Describe to t	he denth	needed to do	ocument th	e indicator or	confirm the absor	ce of indicators \	
Depth	Matrix	ille deptil i	ieeueu to ut		Redox Feature		ce of indicators.)	
(Inches)	Color (moist)	%	Color (mo		% Туре	1 2	Texture	Remarks
0-6	7.5YR 2.5/2	100			,		Silt Loam	
6-15	7.5YR 2.5/3	100					Silt Loam	Some gravel
					,			
Type: C=Cond	centration, D=Depleti	on. RM=Re	educed Matrix	. CS=Cove	red or Coated	Sand Grains		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Appli						Indio	cators for Problematic Hydric Soils ³ :
•	Histosol (A1)		·			edox (S5)		2 cm Muck (A10)
	Histic Epipedon (A2)					Matrix (S6)		Red Parent Material (TF2)
	Black Histic (A3)					Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF1
	Hydrogen Sulfide (A4	.)				Gleyed Matrix (F2)	. ,	Other (explain in Remarks)
	Depleted Below Dark	•	(11)			d Matrix (F3)		
	Thick Dark Surface (A	•	,			ark Surface (F6)		
	Sandy Mucky Mineral	•				d Dark Surface (F7)		³ Indicators of hydrophytic vegetation and wetla
	Sandy Gleyed Matrix	` '				epressions (F8)		hydrology must be present, unless disturbed problematic.
epth (inches	s):		ock 15				Hydric Soil Pre	sent? Yes NoX
Depth (inches	ogy						Hydric Soil Pre	sent? Yes NoX
Depth (inches Remarks: HYDROLO Wetland Hy	IGY drology Indicator	s:	15	k all that a	upply)		Hydric Soil Pre	
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	OGY drology Indicator cators (minimum o	s:	15	k all that a	,	ained Leaves (B9) (Secondary Indicators (2 or more require
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	IGY drology Indicator	s: f one req	15	k all that a	Water s	ained Leaves (B9) (and 4B)		
Primary India	OGY drology Indicator cators (minimum o Surface Water (A1)	s: f one req	15	k all that a	Water s	and 4B)		Secondary Indicators (2 or more requir Water stained Leaves (B9)
Primary India	OGY drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2)	s: f one req	15	k all that a	Water si 1, 2, 4A	and 4B)		Secondary Indicators (2 or more requir Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3)	s: f one req	15	k all that a	Water si 1, 2, 4A, Salt Cru Aquatic	and 4B) st (B11)	Except MLRA	Secondary Indicators (2 or more requir Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	s: f one req	15	k all that a	Water si 1, 2, 4A Salt Cru Aquatic Hydroge	and 4B) st (B11) Invertebrates (B13)	Except MLRA	Secondary Indicators (2 or more requir Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Primary India	drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (E	s: f one req 2)	15	k all that a	Water si 1, 2, 4A, Salt Cru Aquatic Hydroge Oxidized	and 4B) st (B11) Invertebrates (B13) n Sulfide 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 Image
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	s: f one req 2)	15	k all that a	Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presence	and 4B) st (B11) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres alon	Except MLRA g Living Roots (C3) C4)	Secondary Indicators (2 or more requirements) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Image Geomorphic Position (D2)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B-	s: f one req 2) 32)	15	k all that a	Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presence Recent I	and 4B) st (B11) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (0	Except MLRA g Living Roots (C3) C4) owed Soils (C6)	Secondary Indicators (2 or more require Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Image Geomorphic Position (D2) Shallow Aquitard (D3)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator 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	s: f one req 2) 32) 4) B6) Aerial Ima	uired; chec	k all that a	Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted	and 4B) st (B11) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (Control Reduction in Planta	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5)
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Surface Soil Cracks (s: f one req 2) 32) 4) B6) Aerial Ima	uired; chec	k all that a	Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted	and 4B) st (B11) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (C1) ron Reduction in Plator Stressed Plants (C1)	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A
Depth (inches Remarks: HYDROLO Wetland Hy Primary India	drology Indicator 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 C	s: f one req 2) 32) 4) B6) Aerial Ima	uired; chec	k all that a	Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted	and 4B) st (B11) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (C1) ron Reduction in Plator Stressed Plants (C1)	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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A
Primary Indic	drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B2) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations:	s: f one req 2) 32) 4) B6) Aerial Ima	uired; chec	-	Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted	and 4B) st (B11) Invertebrates (B13) n Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (C1) ron Reduction in Plo or Stressed Plants (xplain 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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A
Depth (inches Remarks: HYDROLO Wetland Hy Primary India Field Obser Surface Water	drology Indicator 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:	s: f one req 2) 32) 4) B6) Aerial Ima	uired; chec		Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presence Recent I Stunted Other (E	and 4B) st (B11) Invertebrates (B13) in Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (C1) ron Reduction in Plo or Stressed Plants (Explain 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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A
Primary Indi	drology Indicator 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 Present? Yes Present? Yes Present? Yes	s: f one req 2) 32) 4) B6) Aerial Ima	gery (B7) urface (B8) No		Water si 1, 2, 4A Salt Cru Aquatic Hydroge Oxidized Presend Recent I Stunted Other (E	and 4B) st (B11) Invertebrates (B13) in Sulfide Odor (C1) I Rhizospheres alon e of Reduced Iron (C1) ron Reduction in Plo or Stressed Plants (Explain 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 Image Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A Frost-Heave Hummocks (D7)

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stigator(s): TF/AS Section, Township, Range: 28D 2S 1W dform (hillslope, terrace, etc.:) Local relief (concave, convex, none): Slope (%):	ject/Site:	Ice A	ge Drive		_	City/County:	Sherwo	ood/Washingto	on	Sampling Da	te:	4/14	/2023
Local relief (contrave, convex, none) Local relief (contrave, convex, none) Steps (%)	olicant/Owner:	City of Sh	erwood						State:	OR	San	npling Point:	9
Continue	estigator(s):		TF/AS			Section, To	wnship, Range:			28D 2S 1	w	<u> </u>	
Note	dform (hillslope, ter	rrace, etc.:)					Local relief (cor	ncave, convex, no	ne):			Slope (%):	
Vest	region (LRR):		Α			Lat:	45.3622	255°	Long:	-122.81334	3°	Datum:	WGS84
Semilar Control Semilar Co	Map Unit Name:		Xe	rochrept	s-Rocl	k outcrop co	mplex		NWI Class	ification:		None	
Are "Normal Circumstances" present? (YN) N N N Are "Normal Circumstances" present? (YN) Are "Normal Circumstances" present? (You and You and You are "Normal Circumstances" present. (You and You are "Normal Circumstances" present. (Yn) Are "Norma	•								No	X (if no, e	explain i	n Remarks)	
MMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.	-					-	urbed?	Are "Normal Ci			-	•	
MMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. ophytic Vegetation Present?						-					_	.,	
Sampled Area within a Wetland? Yes X No X X No X X No X X X X X X X X X				diology		idididily proble	natio: ii noodod	, explain any and	1010 111 1 10111	arro.)			
Sampled Area within a Wetland? Yes No X Sampled Area within a Wetland? Yes X No Yes X Yes Yes Xes Yes Yes Yes Yes Xes Yes Yes Yes Yes Xes Yes Yes	MMARY OF F	INDINGS	– Attac	ch site n	nap sl	howing san	npling point	locations, tra	ansects,	important fe	eature	s, etc.	
Ites of Prevalence Index Worksheet:	ophytic Vegetation	n Present?	Yes	X	No _								
and Hydrology Present? Yes No X arks: DAREM analysis for the 3 months prior to field work resulted in Normal conditions. At 5.72 inches however, rainfall over the two weeks precide work was significantly above normal (see report Section C). As such, site conditions were assumed wetter than normal. SETATION - Use scientific names of plants.	ic Soil Present?		Yes		No	Х			Yes		No	X	
### DAREM analysis for the 3 months prior to field work resulted in Normal conditions. At 5.72 inches however, rainfall over the two weeks prior deli work was significantly above normal (see report Section C). As such, site conditions were assumed wetter than normal. #### Dominant Species Dominance Test worksheet:	and Hydrology Pre	esent?	Yes		No -	Х					_		
DAREM analysis for the 3 months prior to field work resulted in Normal Conditions, At 5.72 inches however, rainfall over the two weeks preid work was significantly above normal (see "export Section C). As such, site conditions were assumed wetter than normal. SETATION - Use scientific names of plants. Dominant													
Stratum (plot size:													vo weeks pi
Stratum (plot size:	ETATION - U	Jse scier	ntific nar	mes of p	olants								
Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)								Dominance 1	Test works	sheet:			
That are OBL, FACW, or FAC: 3 (A)	Stratum (plot o	rize.	١	% COV	<u>er</u>	opecies?	Status	Number of Da	inant Cras!	06			
Total Number of Dominant Species Across All Strata: 3	<u>Straturii</u> (piot s			'							2		(Δ)
Total Number of Dominant Species Across All Strata: 3 (B)								That are OBL, I	ACW, OITA				(^)
Species Across All Strata: 3 (B)								Total Number of	f Dominant				
Percent of Dominant Species That are OBL, FACW, or FAC: 100% (A/B)											3		(B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100% (A/B)						= Total Cover		Openico / 10/000	7 III Olididi.				(5)
That are OBL, FACW, or FAC: 100% (A/B)	na/Chrub Stratum												
Prevalence Index Worksheet: Total % Cover of Multiply by:	ng/Siliub Stratum	(plot size	e:	_)							400	0/	(A /D)
Prevalence Index Worksheet: Total % Cover of Multiply by: OBL Species								mat are Obc, F	ACVV, OF FA	4C:	100	70	(A/D)
Total % Cover of Multiply by:								Prevalence la	ndex Worl	csheet:			
OBL Species				-							v bv:		
Stratum (plot size: 5) FACW species								-				0	
Stratum (plot size: 5)				0		= Total Cover		•		x	2 =	0	
The species of the s								FAC Spec	cies	x 3	3 =	0	
Column Totals O (A) O (B)	Stratum (plot s	size:	5)					FACU Spe	cies	X 4	<u> </u>	0	
### Prevalence Index =B/A = ###################################	chinochloa cı	rus-galli						UPL Spec	ies	x	5 = _	0	
Hydrophytic Vegetation Indicators:	Poa species							Column To	otals	0 (A)	_	0	(B)
Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation X 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0¹ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No	Rumex crispus	· · · · · · · · · · · · · · · · · · ·		5		X	FAC						
1- Rapid Test for Hydrophytic Vegetation X 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0¹ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 0 = Total Cover 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No								Prevalenc	e Index =B/A		#DIV	70!	
1- Rapid Test for Hydrophytic Vegetation X 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0¹ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 0 = Total Cover 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No								Lludrophytic	Vagatatia	n Indiantora			
X 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0¹								пушторпушс	•		ludranhi	tio Vogototio	n
15				-						•		•	11
4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No				15		= Total Cover							
5- Wetland Non-Vascular Plants 1 Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No						- Total Gover							supporting
Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No	ly Vine Stratum	(plot size:)					da	ta in Remarks o	r on a se	eparate sheet	i)
1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Yes X No	ay vino otratam								5-	Wetland Non-Va	ascular F	Plants ¹	
disturbed or problematic. Hydrophytic Vegetation Yes X No	ay vino otratam								Pr	oblematic Hydro	phytic V	egetation ¹ (E	xplain)
are Ground in Herb Stratum 85 Vegetation Yes X No	ay viiio ottatam							1Indicators of hy	dric soil and	wetland hydrolo	gy must	be present,	unless
IPIUSUM /	gy viid Siddaii.			0	=	= Total Cover		disturbed or pro	blematic.				

Profile Descriptio Depth (Inches) 0-3 3-10	Matrix Color (moist)	the depth r							
(Inches)	Color (moist)		eeded to docum	ent the indicator or co	nfirm the absen	ce of indicators.)			
0-3				Redox Features					
		%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks		
3-10	10YR 3/2	100							
	10YR 3/1	50	10YR 4/6		M		Fine		
	10YR 3/2	50							
	_			-				_	
Type: C=Concent	ration. D=Depleti	on. RM=Re	duced Matrix. CS=	Covered or Coated Sar	nd Grains.		² Location: PL=Pore Lining, M=	-Matrix.	
				s otherwise noted.		Indic	ators for Problematic Hydr		
_	osol (A1)			Sandy Redo			2 cm Muck (A10)		
	ic Epipedon (A2)			Stripped Ma			Red Parent Mate		
	ck Histic (A3)				ky Mineral (F1) (e	except MLRA 1)		rk Surface (TF12)	
	rogen Sulfide (A4	1)			red Matrix (F2)		Other (explain in		
	-		.11\				Outer (explain iii	remains)	
	eleted Below Dark	-	.11)	Depleted Ma					
	ck Dark Surface (•			Surface (F6)		³ Indicators of hydrophytic veget	tation and wetland	
	dy Mucky Minera				ark Surface (F7)		hydrology must be present, ur		
San	dy Gleyed Matrix	(S4)		Redox Depr	ressions (F8)		problematic.		
Restrictive Lay	er (if present)	:							
Гуре:		Fill/ç	gravel						
Depth (inches):		1	10			Hydric Soil Pres	sent? Yes	No X	
HYDROLOGY Wetland Hydro		····							
_			donado abrada alla	de et en els à			0 d l - d' t (0		
	,	t one requ	uired; check all t	• • • • •	ad Lagues (DO) /	Francis MI DA	Secondary Indicators (2 o		
	face Water (A1)	2)		Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)					
High Water Table (A2)			,			Water stained Le	eaves (B9)		
	Saturation (A3)			Calt Caust /	d 4B)	EXCEPT MLRA	(MLRA1, 2, 4A,	eaves (B9) and 4B)	
Satu	tor Marka (D1)			Salt Crust (I	d 4B) B11)	Ехсерт МЕКА	(MLRA1, 2, 4A, Drainage Pattern	eaves (B9) and 4B) s (B10)	
Satu Wat	ter Marks (B1)	20)		Aquatic Inve	d 4B) B11) ertebrates (B13)		(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate	aves (B9) and 4B) s (B10) er Table (C2)	
Satu Wat Sedi	iment Deposits (E	32)		Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1)		(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (
Satu Wat Sedi Drift	liment Deposits (E			Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along	g Living Roots (C3)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (Guition (D2)	
Satu Wat Sedi Drift Alga	iment Deposits (E t Deposits (B3) al Mat or Crust (B			Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along	g Living Roots (C3) C4)	MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3)	
Satu Wat Sedi Drift Alga Iron	iment Deposits (B3) al Mat or Crust (B- Deposits (B5)	4)		Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C	g Living Roots (C3) C4) owed Soils (C6)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5)	
Satu Wat Sedi Drift Alga Iron	iment Deposits (Et Deposits (B3) al Mat or Crust (B- Deposits (B5) face Soil Cracks (4) (B6)	veny (R7)	Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo	g Living Roots (C3) C4) owed Soils (C6)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5) dds (D6) (LRR A)	
Satu Wat Sedi Drift Alga Iron Surf	iment Deposits (B t Deposits (B3) al Mat or Crust (B Deposits (B5) face Soil Cracks (adation Visible on	4) (B6) Aerial Imaç		Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C	g Living Roots (C3) C4) owed Soils (C6)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5) dds (D6) (LRR A)	
Satu Wat Sedi Drift Alga Iron Surf Inun Spar	iment Deposits (B t Deposits (B3) al Mat or Crust (B- Deposits (B5) face Soil Cracks (adation Visible on crsely Vegetated (4) (B6) Aerial Imaç		Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo	g Living Roots (C3) C4) owed Soils (C6)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5) ads (D6) (LRR A)	
Satu Wat Sedi Drift Alga Iron Surf Inun Spar	iment Deposits (Bat Deposits (Bat) al Mat or Crust (Bat) Deposits (B5) face Soil Cracks (Indation Visible on Irsely Vegetated (Cions:	4) (B6) Aerial Imaç	urface (B8)	Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo	g Living Roots (C3) C4) owed Soils (C6)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5) dds (D6) (LRR A)	
Satu Wat Sedi Drift Alga Iron Surf Inun Spai	iment Deposits (Et Deposits (B3) at Mat or Crust (B5) face Soil Cracks (adation Visible on crsely Vegetated (ions:	4) (B6) Aerial Imaç	No X	Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (i	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hun	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5) ads (D6) (LRR A)	
Satu Wat Sedi Drift Alga Iron Surf Inun Spai Field Observati Surface Water Preservation	iment Deposits (Bit Deposits (B3)) al Mat or Crust (B3) al Mat or Crust (B5) face Soil Cracks (Industrial Visible on Irrely Vegetated (Cions: esent? Yes ent? Yes	4) (B6) Aerial Imaç	No X	Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (i	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hun	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (Continuo (D2) (D3) (D5) ends (D6) (LRR A) enmocks (D7)	
Satu Wat Sedi Drift Alga Iron Surf	iment Deposits (Bt Deposits (B3) al Mat or Crust (B5) face Soil Cracks (adation Visible on crsely Vegetated Coions: essent? Yesent? Yesest? Yes	4) (B6) Aerial Imaç	No X	Aquatic Inve	d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (i	g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A)	(MLRA1, 2, 4A, Drainage Pattern Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hun	eaves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imagery (ition (D2) (D3) (D5) dds (D6) (LRR A)	

PHS#

7431

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

Applicant/Owner: City of Sherwe		City/County:	Sileiw	ood/Washington	_ Cann	pling Date:	7/17	/2023
rippinoanii o iinion.	ood			State	OR	:	Sampling Point:	10
Investigator(s):	/AS	Section, To	Fownship, Range: 28D 2S 1W					
Landform (hillslope, terrace, etc.:)	Slope	_	Local relief (cor	ncave, convex, none):			Slope (%):	
Subregion (LRR):	A	Lat:	45.3636	605° Long:	-122	.815500°	Datum:	WGS84
Soil Map Unit Name:	aurelwood silt loa	– m, 3 to 7 perce	ent slopes	NWI C	assification	:	 None	
Are climatic/hydrologic conditions on the			Yes	No			in in Remarks)	
Are vegetation Soil	or Hydrology	significantly dist	urbed?	Are "Normal Circumstar		- ` '	N	
Are vegetation Soil	or Hydrology			, explain any answers in R		(1714)		
The vegetation			natio: il liccaca	, explain any answers in it	cmarks.			
SUMMARY OF FINDINGS - A	Attach site map	showing san	npling point	locations, transect	s, impor	tant featu	res, etc.	
Hydrophytic Vegetation Present? Ye	es X No	·						
Hydric Soil Present? Ye	es No	X	Is Sampled Ar a Wetlar			١	lo X	
Wetland Hydrology Present? Ye	es No	<u> </u>						
Remarks:								
The DAREM analysis for the 3 n	nonths prior to fie	ld work result	ed in Normal o	conditions. At 5.72 in	ches how	ever, rainfa	all over the tw	o weeks prio
to field work was significantly a	bove normal (see	report Section	C). As such,	site conditions were	assumed	wetter tha	n normal.	
VEGETATION - Use scientific	c names of plan	ts.						
	absolute	Dominant	Indicator	Dominance Test wo	rksheet:			
T 0: 1 / 1 :	% cover	Species?	Status					
Tree Stratum (plot size:)			Number of Dominant Sp			•	(A)
2				That are OBL, FACW, o	r FAC:		3	(A)
2				Total Number of Domina	ent			
Δ				Species Across All Strat			4	(B)
T		= Total Cover		Species Across All Strat	a.		-	(D)
0 11 101 1 01 1		- Total Gover						
Sapling/Shrub Stratum (plot size:	 ′	v		Percent of Dominant Sp				(A (D)
1 Rubus armeniacus	30	<u>X</u>	FAC	That are OBL, FACW, o	or FAC:		75%	(A/B)
2 Corylus cornuta 3	10	<u> </u>	FACU	Prevalence Index W	lorkoboot			
4				Total % Cover of	OIKSHEEL			
5				OBL Species	-	Multiply by: x 1 =	_ ₀	
<u> </u>	40	= Total Cover		FACW species		x 2 =		
				FAC Species		x 3 =	0	
Herb Stratum (plot size: 5)			FACU Species		x 4 =	0	
1 Agrostis sp	70	X	(FAC)	UPL Species		x 5 =	0	
2 Fragaria x ananassa	15		(UPL)	Column Totals	0	(A)	0	(B)
3 Schedonorus arundinaceus	10		FAC					
4 Plantago lanceolata	3		FACU	Prevalence Index :	=B/A =	#[DIV/0!	
5 Hypericum perforatum	2		FACU					
6				Hydrophytic Vegeta				
7					- '		phytic Vegetation	1
8	100	= Total Cover		X	-	ince Test is > nce Index is ≤		
		= Total Cover					tions ¹ (provide s	upporting
Woody Vine Stratum (plot size:	5)				data in Re	marks or on a	a separate sheet)
1 Toxicodendron diversilobum	5	X	FAC			d Non-Vascul		
2					Problemat	ic Hydrophyti	c Vegetation¹ (E	φlain)
-	5	= Total Cover	_	¹ Indicators of hydric soil		d hydrology m	ust be present, ι	ınless
				disturbed or problematic				
				I HVOrophytic				
% Bare Ground in Herb Stratum	0			Hydrophytic Vegetation	Yes	s X	No	

0-18 7.	(Describe to the de Matrix plor (moist) % 5YR 2.5/3 10	6 Color	o documen	nt the indicator or connection Redox Features Which is a second reduced to the indicator or connection or connection and the indicator or connection or con		Texture Silt Loam	Re	emarks
Depth (Inches) Co 0-18 7.	Matrix olor (moist) %	6 Color		Redox Features		Texture	Re	emarks
0-18 7.			(moist)	% Type ¹	Loc ²		Re	emarks
Type: C=Concentrat	5YR 2.5/3 10					Silt Loam		
Hydric Soil Indica								
lydric Soil Indica								
lydric Soil Indica								
lydric Soil Indica								
lydric Soil Indica								
lydric Soil Indica							-	
ydric Soil Indica							-	
ydric Soil Indica			·					
lydric Soil Indica								
	on, D=Depletion, RI	√=Reduced Ma	atrix, CS=C	overed or Coated Sa	and Grains.		² Location: PL=Pore Linir	<u>.</u>
Histoso	itors: (Applicabl	e to all LRR	s, unless	otherwise noted	i.)	Indica	ators for Problemation	: Hydric Soils ³ :
	ol (A1)		·	Sandy Red	dox (85)		2 cm Mucl	k (A10)
Histic F	pipedon (A2)			Stripped M	latrix (S6)		Red Parer	nt Material (TF2)
Black I	Histic (A3)			Loamy Mu	cky Mineral (F1) (e	except MLRA 1)	Very Shall	low Dark Surface (TF12
 Hydrος	en Sulfide (A4)		·	Loamy Gle	eyed Matrix (F2)		Other (exp	olain in Remarks)
Deplet	ed Below Dark Surfa	ace (A11)	•	Depleted N	Matrix (F3)			
Thick I	Dark Surface (A12)		-	Redox Dar	rk Surface (F6)			
	Mucky Mineral (S1)		-		Dark Surface (F7)		³ Indicators of hydrophytic	
	Gleyed Matrix (S4)		-		pressions (F8)			sent, unless disturbed or ematic.
estrictive Layer						T		
HYDROLOGY								
Vetland Hydrolog	gy Indicators:							
rimary Indicators	(minimum of one	required; ch	neck all th	at apply)			Secondary Indicator	rs (2 or more require
Surfac	e Water (A1)			Water stai	ned Leaves (B9) (Except MLRA	Water stai	ined Leaves (B9)
High V	ater Table (A2)		-	1, 2, 4A, a	nd 4B)		(MLRA1,	2, 4A, and 4B)
Satura	ion (A3)			Salt Crust	(B11)		Drainage f	Patterns (B10)
Water	Marks (B1)		-	Aquatic Invertebrates (B13)			Dry-Seasc	on Water Table (C2)
Sedim	ent Deposits (B2)		•	Hydrogen Sulfide Odor (C1)			Saturation	Nisible on Aerial Image
Drift D	eposits (B3)		-	Oxidized Rhizospheres along Living Roots (C3)			Geomorph	nic Position (D2)
Algal N	lat or Crust (B4)		-	Presence of Reduced Iron (C4)			Shallow A	quitard (D3)
Iron De	posits (B5)		•	Recent Iron Reduction in Plowed Soils (C6)			Fac-Neutr	al Test (D5)
Surfac	e Soil Cracks (B6)		-	Stunted or	Stressed Plants (D1) (LRR A)	Raised An	nt Mounds (D6) (LRR A)
Inunda	tion Visible on Aeria	I Imagery (B7)	-	Other (Exp	olain in Remarks)		Frost-Hea	ve Hummocks (D7)
Sparse	ly Vegetated Conca	ve Surface (B	3)		,			
eld Observation	ns:					Τ		
urface Water Prese		No	X	Denth (inches):				
ater Table Present		No	<u> </u>	Depth (inches):	>18	Watland Hud	Irology Present?	
				Depth (inches):		*** Guariu riyu		No. V
aturation Present?	Yes	No	<u> </u>	Depth (inches):	>18		Yes	No <u>X</u>
ncludes capillary fringe	-t- /-t-	monitoring we	II. aerial pho	ntos previous inspo	tions) if available	. <u>. </u>		
ncludes capillary fringe Describe Recorded D	ata (stream daude.	ormornia wei	,	riou, providuo ilionel				
escribe Recorded D		•			**	nes a level of ra	ainfall that exceeds tl	hat of the observed
escribe Recorded D		OD 0.6 SW,	OR show	vs an accumulati	**	nes a level of ra	ainfall that exceeds the	hat of the observed

Appendix C

Site Photos





Photo A:

Sample Point 1 near the northwest study area boundary. Photo shows characteristic upland vegetation west of the industrial/equipment storage area at the northern part of the study area.

Photo B:

Sample Point 2 located within the BPA corridor south of the north end industrial area.



Project # 7431 Date 07/11/23

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Photo C: Sample Points 3 & 4 along the

Photo D:

Depiction of hydrologic conditions found throughout Wetland A at the time of the site visit. Photo was taken from the northern-most boundary.



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Photo E:

Sample Point 10 located southeast of Sample Point 2, both of which are in the BPA corridor.

Photo F:

View of the south end of Wetland B as seen from a road within the BPA right-of-way.



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Photo G:

Sample Point 8; facing southwest towards the pond at the southern tip of Wetland B.

Photo H:

Sample Point 6 (the pink flag), with Wetland B beyond.



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Photo I:

Facing southeast towards the interior of Wetland B from the middle of the western boundary.

Photo J:

Vicinity of Sample Point 5; taken near the middle of southern border of study area adjacent to an onsite residence. (Photo taken prior to data collection and placement of flag.)



Project # 7431 Date 07/11/23

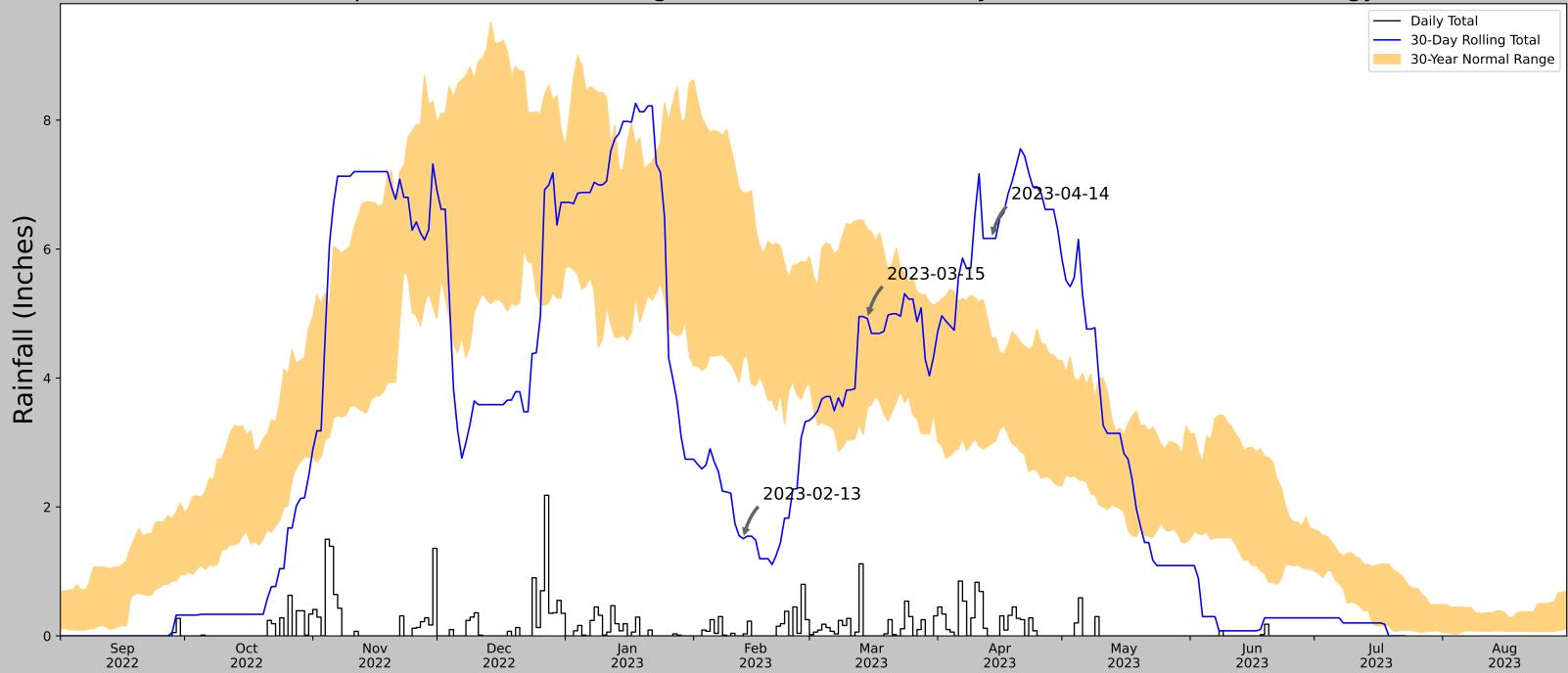
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Appendix D

Antecedent Precipitation Tool (APT) Results

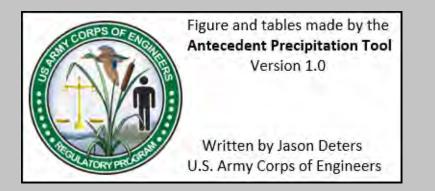


Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	45.362725, -122.813247
Observation Date	2023-04-14
Elevation (ft)	229.687
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-04-14	2.979528	4.615748	6.165355	Wet	3	3	9
2023-03-15	3.540945	6.306693	4.92126	Normal	2	2	4
2023-02-13	4.312599	6.871654	1.507874	Dry	1	1	1
Result							Normal Conditions - 14



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
REX 1 S	45.3033, -122.9133	515.092	6.362	285.405	4.679	11287	90
NEWBERG 0.3 N	45.3102, -122.9608	207.021	2.357	308.071	1.787	8	0
DUNDEE 1.0 NNW	45.2905, -123.01	454.068	4.782	61.024	2.444	1	0
SHERWOOD 2.0 NW	45.38, -122.8716	285.105	5.673	229.987	3.858	1	0
TIGARD 3.2 W	45.4185, -122.8392	479.003	8.735	36.089	4.246	4	0
AURORA STATE AP	45.2467, -122.7708	195.866	7.956	319.226	6.12	31	0
N WILLAMETTE EXP STN	45.2817, -122.7517	149.934	7.995	365.158	6.517	18	0
BEAVERTON 2 SSW	45.4547, -122.8203	270.013	11.393	245.079	7.919	3	0

Appendix E

Offsite Delineation Concurrence Letters





Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

State Land Board

Kate Brown Governor

Bev Clarno Secretary of State

Tobias Read

March 11, 2020

Trammel Crow Company Attn: Kirk Olsen 1300 SW Fifth Avenue, Suite 3050 Portland, OR 97201

Re: WD # 2020-0015 Approved

> Wetland Delineation Report for the T-S Corporate Park Washington County; T2S R1W S28D TL1100 (Portion)

Dear Mr. Olsen: State Treasurer

The Department of State Lands has reviewed the wetland delineation report prepared by Pacific Habitat Services for the site referenced above. Please note that the study area includes only a portion of the tax lot described above (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 6, 6A, and 6B of the report. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Within the study area, 3 wetlands (Wetland A, B and C, totaling approximately 2.91 acres) and one roadside ditch were identified. The wetlands are subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). The roadside ditch is exempt per OAR 141-085-0515(10) except for the area that may be contiguous with Wetland A offsite.

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Since measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact Chris Stevenson, the Jurisdictional Coordinator for Clackamas County at (503) 986-5246.

Sincerely,

Peter Ryan, PWS

Et Ryan

Aquatic Resource Specialist

Enclosures

ec: Shawn Eisner, Pacific Habitat Services

City of Sherwood Planning Department

Carrie Bond, Corps of Engineers

Anita Huffman, DSL

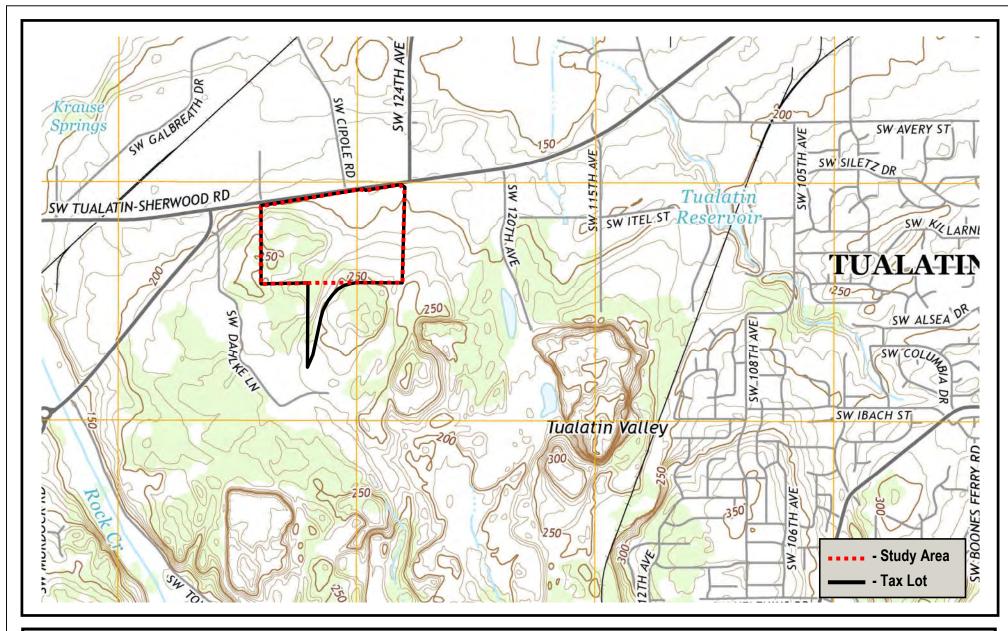
Lindsey Obermiller, Clean Water Services

WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make the checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: https://apps.oregon.gov/DSL/EPS/program?key=4.

Attach this completed and signed form to the front of an unbound report or include a hard copy with a digital version (single PDF file of the report cover from 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 of the completed cover form and report may be e-mailed to **Wetland_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail DSL instructions on how to access the file from your ftp or other file sharing website.

Contact and Authorization Information					
Applicant Owner Name, Firm and Address:	Business phone # 503-946-4981				
Trammel Crow Company Attn: Kirk Olsen	Mobile phone # (optional)				
1300 SW Fifth Avenue, Suite 3050		E-mail: KOlsen@trammellcrow.com			
Portland, OR 97201					
Authorized Legal Agent, Name and Address:		Business phone #			
		Mobile phone # E-mail:			
		E-IIIaII.			
I either own the property described below or I have legal authori property for the purpose of confirming the information in the repo					
Typed/Printed Name: Kirk L. Olsen	Signa	ature: Kirk L. Olsen			
Date: 1/7/20 Special instructions regarding site a					
Project and Site Information					
Project Name: T-S Corporate Park	Latitude:	Longitude:			
,	45.3682° N	V -122.8103° W ree - centroid of site or start & end points of linear project			
	Tax Map #				
	Tax Lot(s)	1100 (portion)			
Proposed Use: Light Industrial	Tax Map #	ŧ			
	Tax Lot(s)				
Project Street Address (or other descriptive location):	Township	Range Section QQ			
12900 SW Tualatin-Sherwood Road, North portion of	2S	1W 28 SE 1/4			
tax lot	Waterway:	River Mile: n/a			
City: Sherwood County: Washington	NWI Quad	(s): Sherwood			
Wetland Delineation Information					
Wetland Consultant Name, Firm and Address:		Phone # 503-570-0800			
Pacific Habitat Services Attn: Shawn Eisner		Mobile phone # E-mail: se@pacifichabitat.com			
9450 SW Commerce Circle, Suite 180		2 maii. 00 spaomonastatioom			
Wilsonville, OR 97070					
The information and conclusions on this form and in the attached Consultant Signature:		Date: 1/3/20			
Primary Contact for report review and site access is	Consultant	Applicant/Owner			
		re Wetland Acreage: 2.94 ac Waters Acreage: 0 ac			
Check Applicable Boxes Below		3 3			
R-F permit application submitted	F	ee payment submitted \$466			
☐ Mitigation bank site	□ Б	ee (\$100) for resubmittal of rejected report			
☐ Industrial Land Certification Program Site		Request for Reissuance. See eligibility criteria (no fee)			
☐ Wetland restoration/enhancement project (not mitigation	on) D	DSL # Expiration Date			
☐ Previous delineation/application on parcel?		WI shows wetlands or waters on parcel?			
If Known, previous DSL # 2014-0448, 2017-0006 & 000		Vetland ID Code			
-	or Office Use				
DSL Reviewer: C.S. Fee Paid Date:	1	/ DSL WD # 2020-0015			
	/ ned: 🛛 F	inal Scan: □ DSL App. #			

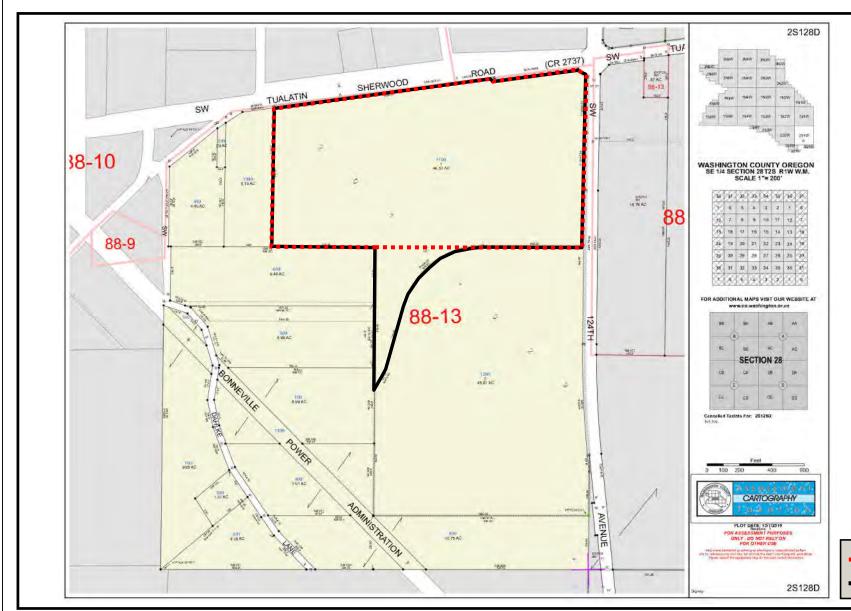


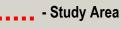


Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 General Location and Topography
T-S Corporate Park—Sherwood, Oregon
United States Geological Survey (USGS), Sherwood, Oregon, 7.5 Quadrangle, 2014
(viewer/nationalmap.gov/basic)

FIGURE

1



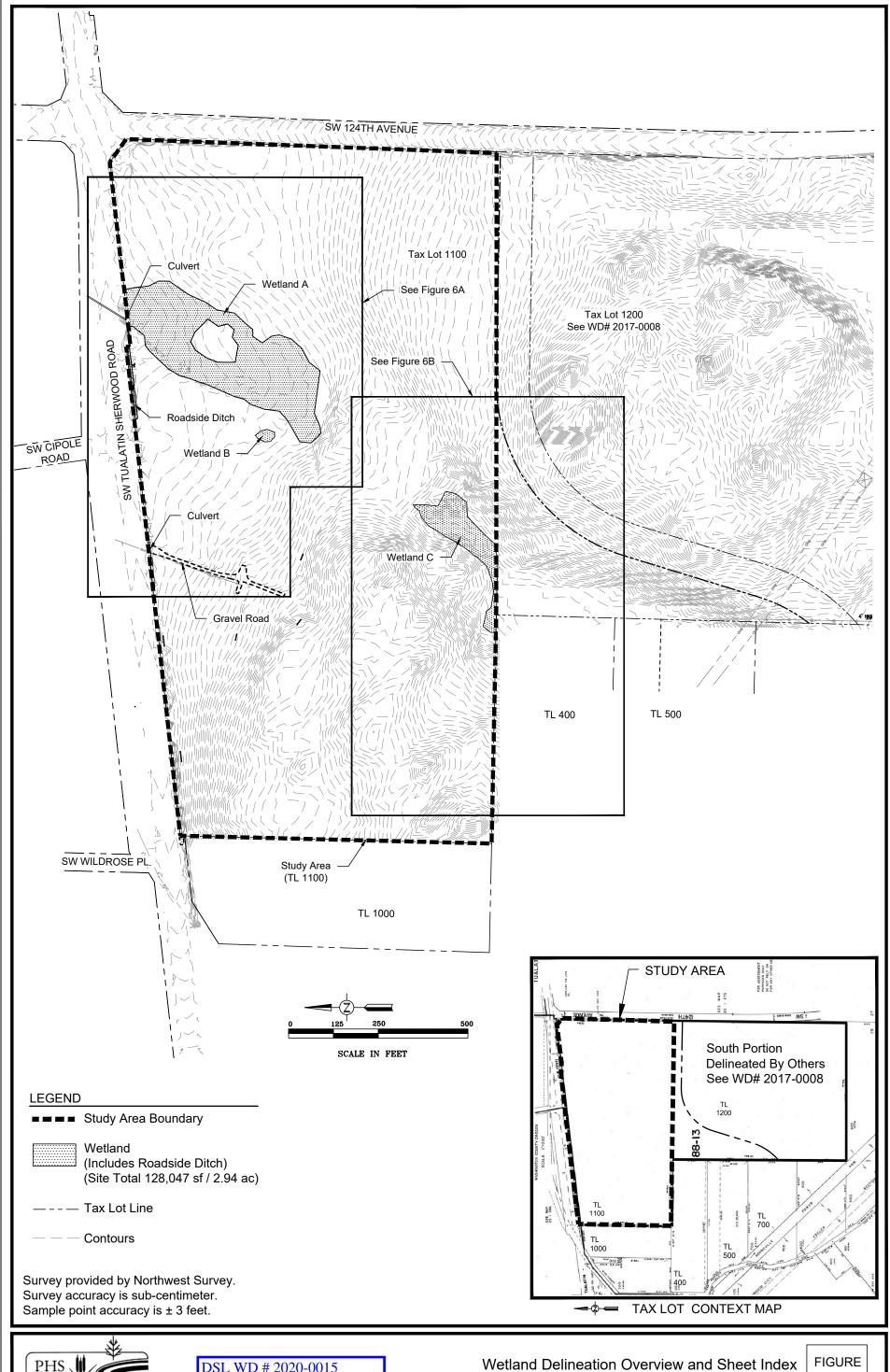


- Tax Lot



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Tax Lot Map T-S Corporate Park—Sherwood, Oregon The Oregon Map (ormap.net) FIGURE

2

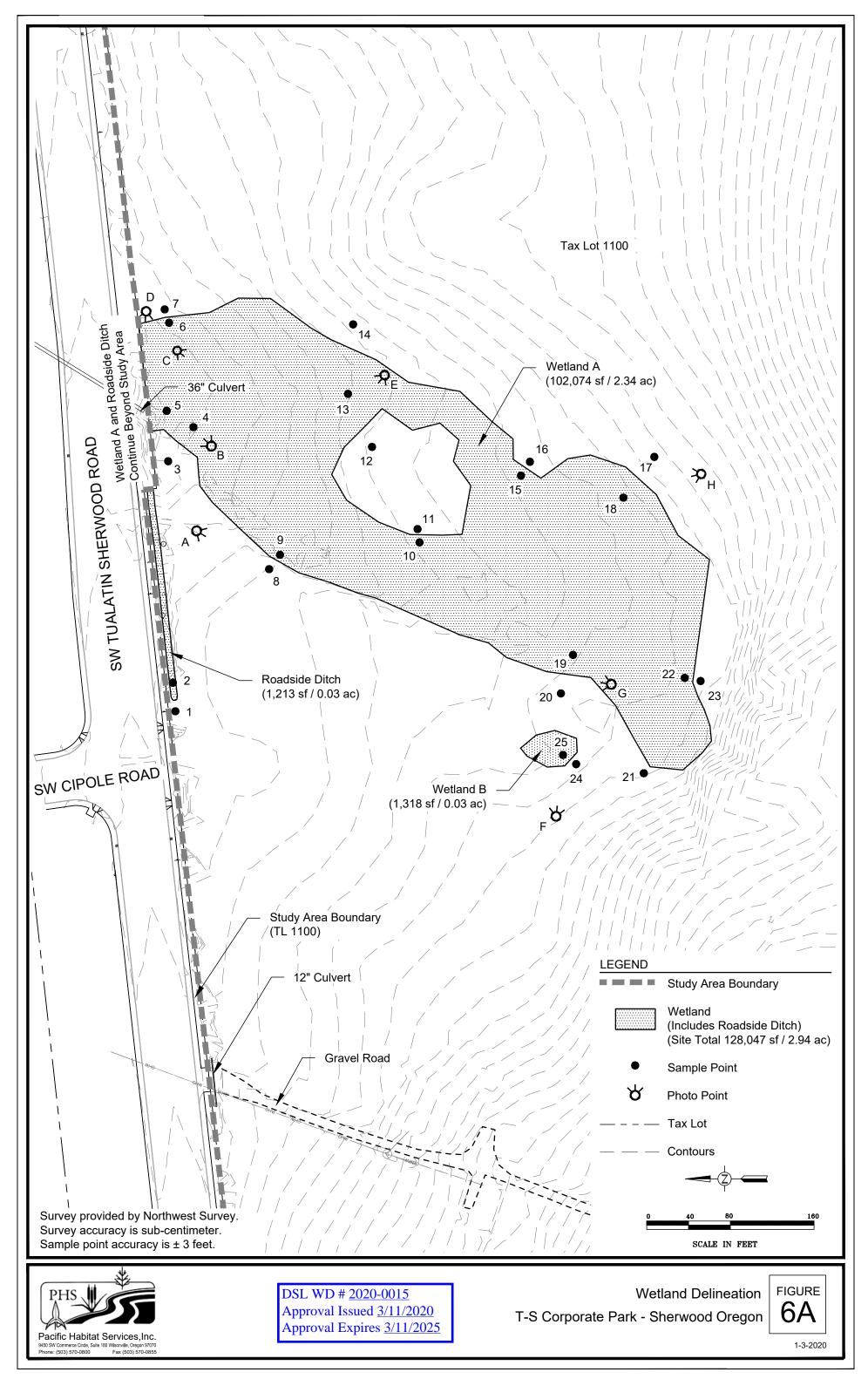


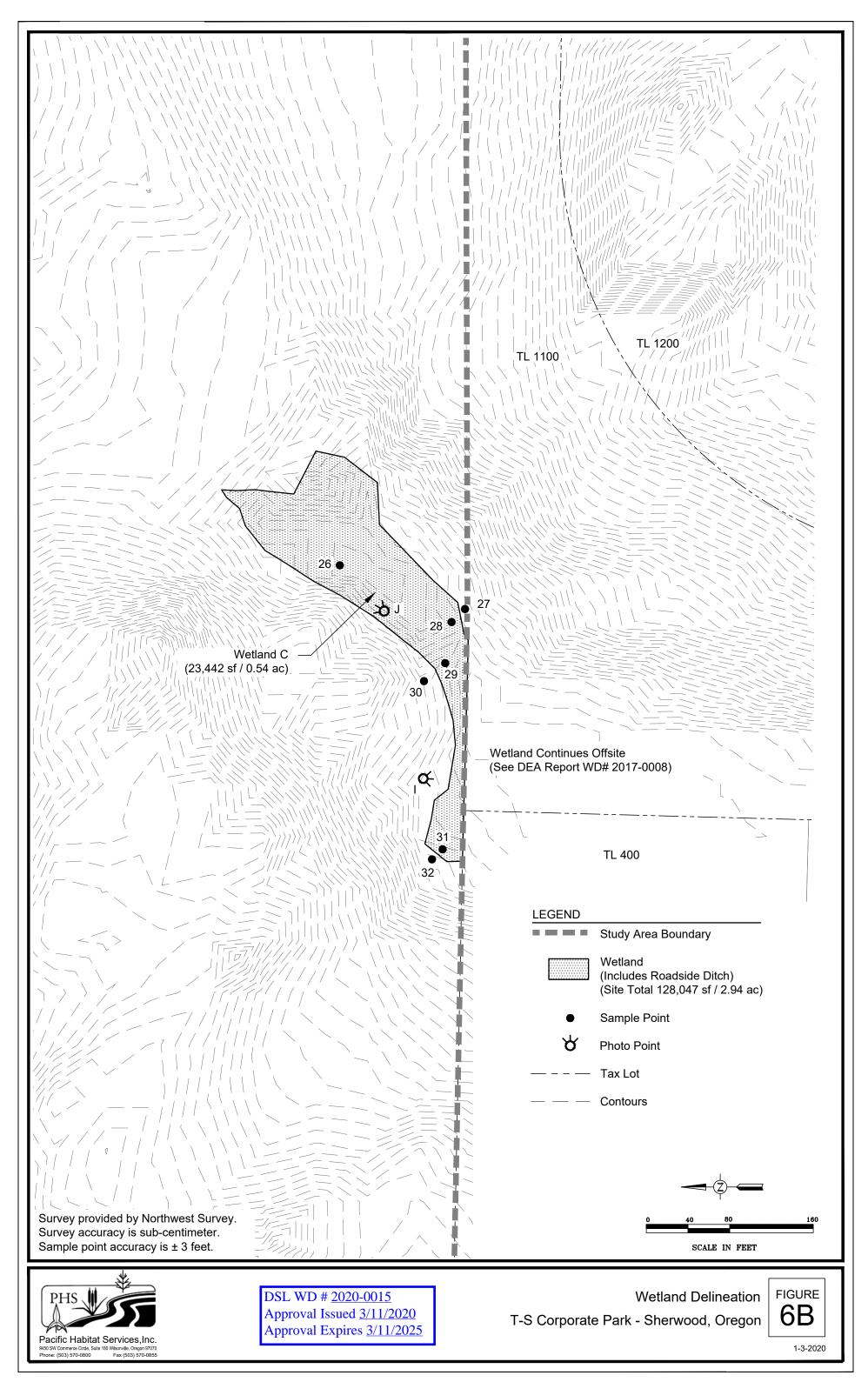


DSL WD # <u>2020-0015</u> Approval Issued <u>3/11/2020</u> Approval Expires <u>3/11/2025</u> Wetland Delineation Overview and Sheet Index
Orr Property - Washington County, Oregon

FIGURE 6

3-6-2020







Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200

> FAX (503) 378-4844 www.oregon.gov/dsl

> > State Land Board

Kate Brown

Governor

City of Hillsboro Water Department Attn: Niki Iverson

Attn: Niki Iverson 150 E. Main Street Hillsboro, OR 97123-4028

Re:

WD # 2017-0008 Wetland Delineation Report for the

Proposed Water Treatment Plant for the Willamette Water

Supply Program Project

Washington County; T2S R1W Sec. 28D, Portion of Tax Lot 100

Dennis Richardson Secretary of State

> Tobias Read State Treasurer

Dear Ms. Iverson:

March 29, 2017

The Department of State Lands has reviewed the wetland delineation report prepared by David Evans and Associates, Inc. for the site referenced above. Please note that the study area includes only a portion of the tax lot described above (see the attached map). Based upon the information presented in the report, we concur with the wetland boundaries as mapped in Figure 6 of the report. Within the study area, seven delineated wetlands and one potential wetland (Wetland PW_H) were identified, totaling approximately 6.0 acres.

The wetlands are subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands. In addition, due to access issues Wetland PW-H was mapped using offsite wetland determination methods including interpretation of Lidar generated contour topography. Because offsite determination methods are not suitable for removal-fill permitting, it will be necessary to use onsite methods and delineate this area prior to project construction. If subsequent onsite wetland delineation work changes the areas of wetland and wetland impact appreciably, the Department may require an addendum wetland report and a revised permit application.

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you

work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5232 if you have any questions.

Sincerely.

Peter Ryan, PWS

Jurisdiction Coordinator

Approved by

Kathy Verble, CPSS

Aquatic Resource Specialist

Enclosures

ec: John Macklin, David Evans and Associates, Inc.

Washington County Planning Department

Jaimee Davis, Corps of Engineers
Amber Wierck, Clean Water Services

Anita Huffman, DSL

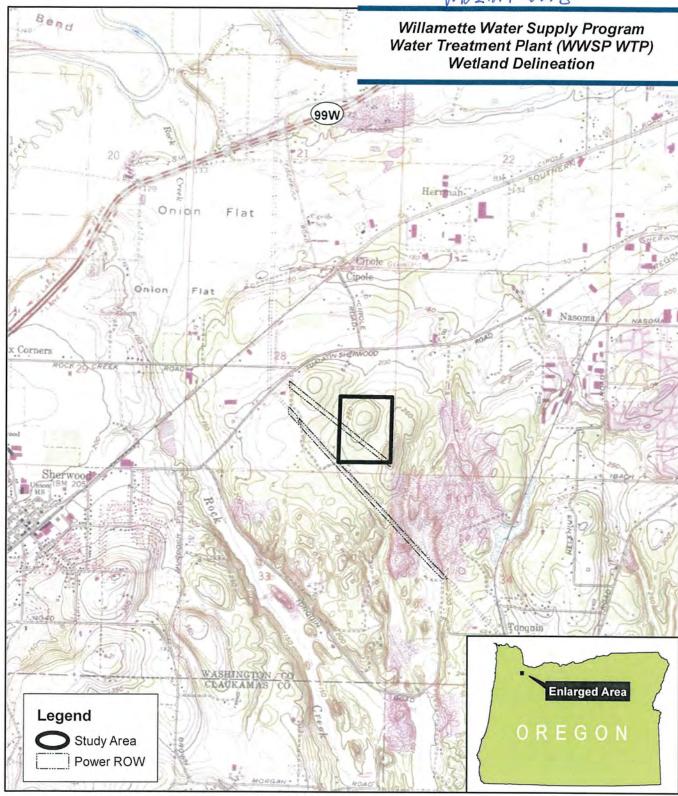
WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

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.

Miki Iverson, Water Resource Manager	Applicant Owner Name, Firm and Address:	Business phone # (503) 615-6770				
Seaverton, OR 97006		Mobile phone # (optional)				
Beaverton, OR-97066 Hills bor R 47123 - 4028		E-mail: niki.iverson@hillsboro-oregon.gov				
Multiprized Legal Agent, Name and Address: Business phone # (503) \$15-6770	150 E. Main Street					
Mobile phone # E-mail: niki.iverson@hillsboro-oregon.gov						
Leither own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notificility to the purpose of the property for the purpose of confirming the information in the report, after prior notificility to the primary contact. Signature Williams Signature Sign						
Leither own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notificition to the primary contact. Signature						
Property for the purpose of continuing the information in the report, after prior notificition to the primary contact. Typed/Princed Name: Miki Iverson Signature Signature Special instructions regarding site access:	City of Hillsboro water Department	E-mail: niki.iverson@nilisboro-oregon.gov				
Project Name: Willamette Water Supply Program Proposed Use: Water Treatment Plant for Willamette Water Supply Program Tax Map # 2\$128D000100 Project Street Address (or other descriptive location): Tax Lot(s) 100 Waterway: None NVI Quad(s): Wetland Consultant Name, Firm and Address: Phone # 503-223-6663 Mobile phone # E-mail: jdm@deainc.com Wetland, OR 97201 Primary Contact for Feport review and site access is Consultant Agent Primary Contact for Feport review and site access is Consultant Primary Contact for Feport review and site access is Consultant Primary Contact for Feport review and site access is Consultant Primary Contact for Feport review and site access is Consultant Premit Supplication submitted Wetland Consultant Supplication submitted Resissuance of a recently expired delineation Previous DSL # Expiration date Other Information: Y N Has previous delineation/application been made on parcel? Fee Paid Date: 1 1 1 1 DSL Project # DSL WD # Add I 1 2014 DSL Site # Date Delineation Received: 1 1 1 DSL Project # DSL Site #	Typed/Printed Name: Niki Iverson Date: 15 Special instructions regarding site	ort, after prior notification to the primary contact. Signature:				
Proposed Use: Water Treatment Plant for Williamette Water Supply Program Tax Map # 25128D000100		at for lat/long.,enter centroid of site or start & end points of linear project)				
Project Street Address (or other descriptive location):		Latitude: 45.365033 Longitude: -122.808787				
Tax Lot(s) 100 Waterway: None NWI Quad(s): Wetland Delineation Information Wetland Consultant Name, Firm and Address: Phone # 503-223-6663 Mobile phone # E-mail: jdm@deainc.com Portland, OR 97201 The information and conclusions on this formation in the attached report are true and correct to the best of my knowledge. Consultant Signature: Primary Contact for report review and site access is Consultant Applicant/Owner Authorized Agent Wetland/Waters Present? Yes No Study Area size: 31.06 ac Total Wetland Acreage: .16 Check Box Below if Applicable: R-F permit application submitted Fee payment submitted \$ 419 Mitigation bank site Fee (\$100) for resubmittal of rejected report Wetland restoration/enhancement project (not mitigation) Reissuance of a recently expired delineation Previous DSL # Expiration date Other Information: Has previous delineation/application been made on parcel? For Office Use Only DSL Reviewer: Fee Paid Date: 1 1 1 1 1 1 1 1 1	Proposed Use: Water Treatment Plant for Willamette Water Supply Program	Tax Map # 2S128D000100				
Tax Lot(s) 100 Waterway: None NW Quad(s): Wetland Delineation Information Wetland Consultant Name, Firm and Address: Phone # 503-223-6663 Mobile phone # E-mail: jdm@deainc.com Poster of report review and site access is Consultant Consultant Signature: Wetland Consultant Signature: Wetland Research (not mitigation) Primary Contact for feport review and site access is Consultant Applicant/Owner Authorized Agent Wetland/Waters Present? Wetland/Waters Present? Respective for Applicable: Respective for Application submitted Mitigation bank site Resisuance of a recently expired delineation Previous DSL # Expiration date Other Information: Wetland, show wetland or waters on parcel? Fee Paid Date: For Office Use Only DSL WD # DSL WD # Date: DSL WD # DSL WD # DSL Site #	Project Street Address (or other descriptive location):	Township 2S Range 1W Section 28 QQ SE/SE				
Wetland Consultant Name, Firm and Address: John Macklin David Evans and Associates, Inc. 2100 SW River Parkway Portland, OR 97201 The information and conclusions on this form and site access is Consultant Signature: Date: 01-04-2017 Primary Contact for Feport review and site access is Consultant	12900 SW Tualatin-Sherwood Rd					
Wetland Consultant Name, Firm and Address: John Macklin David Evans and Associates, Inc. 2100 SW River Parkway Portland, OR 97201 The information and conclusions on this form and site access is Consultant Signature: Date: 01-04-2017 Primary Contact for Feport review and site access is Consultant		Waterway: None River Mile:				
Wetland Consultant Name, Firm and Address: John Macklin David Evans and Associates, Inc. 2100 SW River Parkway Portland, OR 97201 The information and conclusions on this formand in the attached report are true and correct to the best of my knowledge. Consultant Signature: Date: 01-04-2017 Primary Contact for report review and site access is Consultant	City: Sherwood County: Washington					
John Macklin David Evans and Associates, Inc. 2100 SW River Parkway Portland, OR 97201 The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Consultant Signature: Date: 01-04-2017 Date:	Wetland De	lineation Information				
David Evans and Associates, Inc. 2100 SW River Parkway Portland, OR 97201 The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Date: 01-04-2017 Primary Contact for feport review and site access is Consultant Applicant/Owner Authorized Agent Wetland/Waters Present? Yes No Study Area size: 31.06 ac Total Wetland Acreage: .16 Check Box Below if Applicable: Fees: R-F permit application submitted Fee (\$100) for resubmitted of rejected report No fee for request for reissuance of an expired report Industrial Land Certification Program Site Reissuance of a recently expired delineation Previous DSL # Expiration date Other Information: Has previous delineation/application been made on parcel? Does LWI, if any, show wetland or waters on parcel? Fee Paid Date: I I I I I DSL Project # DSL WD # DSL Site #		Phone # 503-223-6663				
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Portland, OR 97201 The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Date: 01-04-2017 Date: 01-04-2017 Date: 01-04-2017		E-mail: jdm@deainc.com				
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Wetland/Waters Present?	Consultant Signature: John Machhi	Date: 01-04-2017				
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Mitigation bank site	Check Box Below if Applicable:	Fees:				
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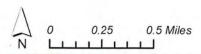
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WD2017-0008

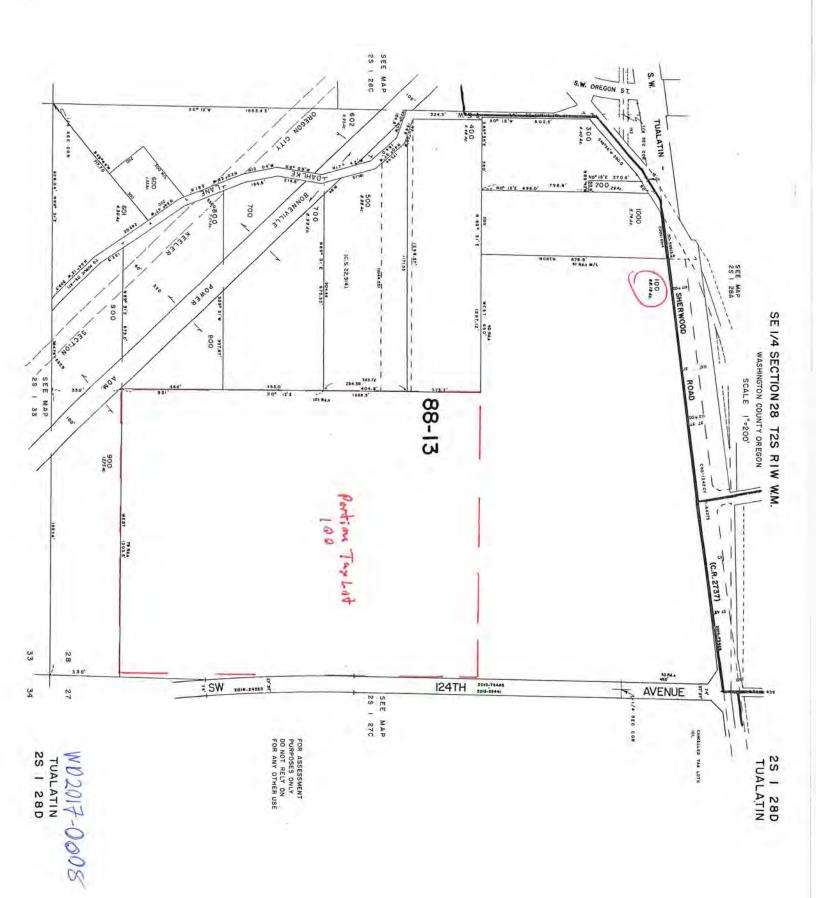


ESRI, ArcGIS Online, USA Topographic Maps. 30x60 GRID Quadrangles

Figure 1 Vicinity Map



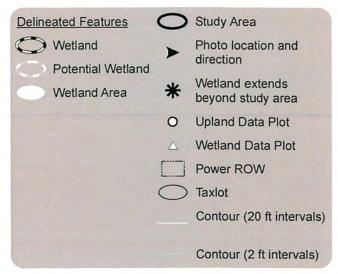




Wetland C-Wetland B 2S128D000400 Wetland F 2S127C000701 Wetland A Wetland E 2S128D000500 25 2S128D000100 Wetland D-Potential Wetland PW-H 2S128D000700 Wetland G 2S127C000800 2S128D000800 2S1W28D -BPA # QM TSQ 2S128D000900

Willamette Water Supply Program Water Treatment Plant (WWSP WTP) Wetland Delineation

Figure 6
Delineated Wetlands



On-site features (wetlands, ditches, streams, culverts, and data plots) were mapped with a Trimble Pathfinder GEO XH receiver with typical accuracy of 3 feet or better. Off-site boundaries are approximate and were mapped based on field review from adjacent public right of way and aerial photo interpretation. An asterisk was included where jurisdictional features, with the exclusion of upland ditches, extend off site. Only taxlots which intersect the study area are labeled. Imagery: USDA NAIP 2016.

