

9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

PACIFIC HABITAT SERVICES, INC.

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December 7, 2021

Brian M. Candau Phelan Development Company 6750 SW Bradbury Ct. Portland OR, 97224

RE: Wetland Determination at 4375 Turner Road SE, Salem, OR PHS #7374

Pacific Habitat Services, Inc. (PHS) conducted a wetland determination on October 21 and November 15, 2021, on City of Salem parcel no. 082W07C000200, consisting of 10.12 acres and located at 4375 Turner Road SE in Salem, Oregon (Township 8 South, Range 2 West, Section 7) (See attached Figures 1-2). The result of the wetland determination is that **a wetland confined to a ditch is located at the western boundary of the parcel. No other wetlands are present.**

Existing Conditions

The overall study area topography is flat; however, four borrow pits and several drainage ditches are present. Courtney gravelly silty clay loam, 0-3 percent slopes, a hydric is mapped within a portion of the property. Drainage ditches are located adjacent to Turner Road SE; however, these are located in Sifton gravelly loam soils, which are not mapped as hydric, and no wetlands are present. The borrow pits do not have wetlands and are located in Clackamas gravelly loam soils, which are also not mapped as hydric.

Dominant vegetation for most of the site includes ruderal grasses and forbs including dove's-foot geranium (*Geranium molle*, (UPL), tall fescue (*Schedonorus arundinaceus*, FAC), Queen Anne's lace (*Daucus carota*, FACU), curly dock (*Rumex crispus*, FAC), Canada thistle (*Cirsium arvense*, FAC), and bull thistle (*Cirsium vulgare*), FACU. There are several large Oregon oak trees (*Quercus garryana*, FACU) near the northern property boundary and balsam poplar trees (*Populus balsamifera*, FAC) adjacent to the southern property boundary.

A drainage ditch containing wetlands runs parallel to the property's western boundary and captures runoff from the railroad west of the study area.

On-site Determination of Wetlands or Waterways

Prior to the field investigation, precipitation information from the Salem Airport (McNary Field) WETS station was examined to determine hydrological conditions, which were determined to be below normal range for the water year, two of the previous three months, and the two weeks preceding the October 21, 2021, wetland determination field work. Precipitation was normal for two of the preceding three months and well above normal for the two weeks preceding the November 15, 2021, fieldwork (Table 1).

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Month	Average	30% chano	ce will have	Observed	Percent of
Month	Precipitation ¹	Less than ¹	More than ¹	Precipitation ¹	Normal
July	0.57	0.17	0.63	0.02	4
August	0.68	0.21	0.72	0.02	3
September	1.43	0.53	1.68	2.89	202
October	3.03	1.61	3.70	2.71	89

Table 1. Average Monthly and observed precipitation for Silverton (NRCS WETS Table)

Notes: ¹Source: NRCS WETS Table for Salem Airport: http://agacis.rcc-acis.org/?fips=41047

Recorded precipitation for the two weeks preceding the October 21 fieldwork was 0.52 inches, which is 36 percent of normal (1.46 inches). Recorded precipitation for the water year (October 1, 2020 – September 30, 2021) was 36.75 inches, which is 92 percent of normal (40.08 inches). Precipitation for the two weeks preceding the November 15 fieldwork was 4.26 inches, which is 189 percent of normal (2.25 inches). A record of 1.05 inches fell on November 11, four days prior to the fieldwork.

Sample points 1-3 were collected on October 21. Below normal conditions for this effort were not seen as affecting the wetland determination, as no indirect wetland hydrology indicators including oxidized rhizospheres along living roots, sediment deposits, surface soil cracks, and FAC-neutral test were observed. None of the sample points met a hydric soil indicator; however, soils appeared to have been disturbed in recent years and likely included fill. Sample point 4 was collected on November 15, following much higher-than normal rainfall for the preceding two weeks.

Sample point 1 was placed in a disturbed area in the eastern part of the study area with mapped Courtney clay loam soils. The dominant vegetation is dove's-foot geranium, tall fescue, and Queen Anne's lace. Wetland hydrology was not present; however, soils met the requirements for a depleted matrix, although the upper five inches of the soil had a high chroma (10YR 3/3) indicating that it was possibly fill.

Sample point 2 was taken in a borrow pit midway between the eastern and western study area boundaries in the southern portion of the study area. Hydrophytic vegetation, hydric soils, and wetland hydrology were not present.

Sample point 3 was taken in a drainage ditch adjacent to Turner Road SE. The dominant vegetation was shiny geranium. Hydrophytic vegetation, hydric soils, and wetland hydrology were not present.

Sample point 4 was taken in a slight topographic depression in the northeastern portion of the study area is mapped Courtney clay loam soils. Wetland vegetation, soils, and hydrology were not present, and the soil profile appeared to be a mixture of native soil and fill.

No data was taken in the drainage ditch at the western boundary of the study area; however standing water was observed for its entire length.

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Results and Conclusions

As described above, PHS observed a single wetland located in a ditch along the western boundary of the study area adjacent to an existing railroad track.

Required Disclaimer

This letter 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.

Feel free to contact me directly should you require any additional information pertinent to this determination memo.

Sincerely

Loe Thompson

Joe Thompson, PWS

Enclosures: Figures 1-6 Wetland Determination Data Forms Site Photos







#7374 11/23/2021

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 4375 Turner Road SE, Salem, OR Salem-Keizer Local Wetlands Inventory FIGURE









4375 Turner Road SE, Salem, OR August 2020 Google Earth Satellite Photo FIGURE







4375 Turner Road SE, Salem, OR May1994 Google Earth Historic Aerial Photo







4375 Turner Road SE, Salem, OR March 2008 Google Earth Historic Aerial Photo







4375 Turner Road SE, Salem, OR July 2012 Google Earth Historic Aerial Photo







4375 Turner Road SE, Salem, OR October 2017 Google Earth Historic Aerial Photo





Photo A:

Looking east at Sample Point 1 Photo taken on October 21, 2021

Photo B:

Looking southwest at Sample Point 2, located within a borrow pit.

Photo taken on October 21, 2021



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Photo C:

Looking north at Sample Point 3, located within a roadside ditch.

Photo taken on October 21, 2021

Photo D:

Looking northwest at Sample Point 4.

Photo taken on November 15, 2021



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,	WETLAND DET	ERMINATION	N DATA FO	RM - Weste	rn Mountains, V	alleys, an	d Coast I	PHS # Region	7374
Project/Site:	oject/Site: Turner Rd SE		City/County:	City/County: Salem/Marion			ng Date:	10/2	1/2021
Applicant/Owner:	Phelan Develop	ment			State	e: OR	Sa	ampling Point:	1
Investigator(s):	JT		Section, To	wnship, Range:	Section	7, Township	8 South,	Range 2 We	est
Landform (hillslope,	, terrace, etc.:)	Flat	-	Local relief (cor	ncave, convex, none):	<u> </u>	ne	Slope (%):	~1
Subregion (LRR):		RA	Lat:	44.889	34 Lone	a: -122	9839	Datum:	WGS84
Soil Map Unit Name	e Courtne	v gravelly silty cl	av loam 0-3 i	ercent slopes	s NWI	Classification:		-	
Are climatic/bydrolo	oric conditions on the s	ite typical for this tim	e of vear?	Ves	<u> </u>		if no explain	in Remarks)	
Are vegetation	Soil X o	r Hydrology	significantly dist	urbed?	Are "Normal Circumst	ances" present	2 (Y/N)	N	
Are vegetation			-	motio? If nooded		Domorko)	(1/14)		
	0					itemarks.)			
SUMMARY OF	FINDINGS – At	tach site map s	showing sar	npling point	locations, transec	ts, importa	ant featur	es, etc.	
Hydrophytic Vegeta	tion Present? Yes	No	Х						
Hydric Soil Present	? Yes	X No		Is Sampled Ar a Wetlar	ea within hd? ^{Ye}	s	No	x	
Wetland Hydrology	Present? Yes	No	X						
Remarks:									
Aerial photogra	phy indicates that	the ground has I	been disturbe	d multiple tim	es since 2008. The ι	pper 5 inch	es of the s	oil may incl	ude fill. Wetlan
hydrology is be	low normal; howev	ver, no indirect in	ndicators of h	ydrology such	n as geomorphic pos	sition are pro	esent, likel	y due to fill	
VEGETATION	- Use scientific	names of plant	s.						
		absolute	Dominant	Indicator	Dominance Test w	orksheet:			
Tree Stratum (nl	ot size:	% cover	Species?	Status	Number of Dominant S	nocios			
1		/			That are OBL_EACW	or FAC:		1	(A)
2						-		•	(, ,)
3					Total Number of Domir	ant			
4					Species Across All Stra	ata:	:	3	(B)
		0	= Total Cover			-			
Sapling/Shrub Strat	tum (nlot size:)			Percent of Dominant S	necies			
1	(plot 3/20.	/			That are OBL_FACW	or FAC [.]	33	3%	(A/B)
2					,				()
3					Prevalence Index \	Norksheet:			
4					Total % Cover of	r	Aultiply by:		
5					OBL Species		x 1 =	0	
		0	= Total Cover		FACW species		x 2 =	0	
					FAC Species		x 3 =	0	
Herb Stratum (pic			v		FACU Species		x 4 =		
2 Schedonoru	ione Is arundinacous		<u> </u>		Column Totals		- C X		(B)
3 Daucus caro	ota		<u> </u>	FACU	Column rotais	(~)		(0)
4 Agrostis sp		10		(FAC)	Prevalence Index	: =B/A =	#DI	V/0!	
5 Erodium sp		10		(FAC)		-			
6					Hydrophytic Veget	ation Indica	tors:		
7						1- Rapid Tes	t for Hydroph	nytic Vegetatio	n
8						2- Dominand	e Test is >50)%	
		100	= Total Cover			3-Prevalence	e Index is ≤ 3	5.0 ¹	
		`				4-Morpholog	ical Adaptati	ons' (provide s	supporting
vvoody Vine Stratur)				data in Rem	arks or on a s	separate sheel	L)
2						Problematic	Hydrophytic '	rianis Vecetation ¹ /⊏	volain)
<u> </u>			= Total Cover		¹ Indicators of hydric so	and wetland h	vdroloav mu	st be present	unless
					disturbed or problemati	C.	., alongy mu	et be prosent,	
		_			Hydrophytic				v
% Bare Ground in F	Herb Stratum	5			Vegetation Present?	Yes_		No	X
Remarks:					F1656(11)				

Arrhenatherum elatius and Rumex crispus compose less than 1% of the herbaceous layer. Bare areas within and outside of the sample area indicate likely disturbance from several years ago.

			PHS #	737	4			Sampling Point: 1
rofile Descri	ption: (Describe to	the depth	needed to docume	ent the indic	ator or conf	irm the abse	nce of indicators.)	
Depth (Inchos)	Matrix	0/_	Color (moist)	Redox %	Features		Toxturo	Pomarka
				1		M	Silty Clay Loam	Fino
<u> </u>	10YR 4/1		101R 4/0	<u> </u>	<u> </u>	M	Silty Clay Loam	Fine
0.14	101R 4/1	90	101R 5/8	<u> </u>	<u> </u>	IVI M	Silty Clay Loam	
9-14	1018 4/1	90	1018 5/6	10	<u> </u>	IVI	Sitty Clay Loam	Large
							·	
					·		·	
							·	
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ype: C=Con	centration, D=Depleti	on, RM=R	educed Matrix, CS=	Covered or (Coated Sand	l Grains.	Indias	² Location: PL=Pore Lining, M=Matrix.
yune Son			all LRRS, unles		Se noted.)		muica	
						(55)		2 cm Muck (A10)
	Histic Epipedon (A2)			s	stripped Matr	IX (56)		
	Black Histic (A3)			Ľ	оату миску	/ Mineral (F1)	(except MLRA 1)	Very Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4	4)		L	oamy Gleye	d Matrix (F2)		Other (explain in Remarks)
	Depleted Below Dark	: Surface (/	A11)	<u> </u>	epleted Mat	rix (F3)		
	Thick Dark Surface (A12)		F	Redox Dark S	Surface (F6)		³ Indicators of hydrophytic vegetation and wetland
	Sandy Mucky Minera	l (S1)		C	epleted Dar	k Surface (F7)	hydrology must be present, unless disturbed or
	Sandy Gleyed Matrix	(S4)		F	Redox Depres	ssions (F8)		problematic.
estrictive	Layer (if present)	:						
vpe:								
ype: epth (inches emarks: he upper l	ayer (0-5 inches)	appears	to be fill and ma	ay have be	en brougł	nt over fron	Hydric Soil Pres	ent? Yes X No
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	WEILAND DET		NUATAFO	kivi - weste	ern wountains, Val	leys, and Coa	ast Region	
roject/Site:	Turner Rd S	E	City/County:	Sa	alem/Marion	Sampling Date	e: <u>10/2</u>	21/2021
pplicant/Owner:	Phelan Develop	ment			State:	OR	Sampling Point	2
vestigator(s):	JT		Section, To	wnship, Range:	Section 7,	Township 8 Sou	uth, Range 2 W	est
andform (hillslope	, terrace, etc.:)	Pit		Local relief (co	ncave, convex, none):	Concave	Slope (%)	. 0
ubregion (LRR):	LRI	RA	Lat:	44.88	BB Long:	-122.9847	Datum	WGS84
oil Map Unit Name	e:	Clackamas	s gravelly loam	1	NWI Cla	assification:	N/A	
re climatic/hydrolo	ogic conditions on the si	te typical for this tim	ne of year?	Yes	No	X (if no, ex	plain in Remarks)	
re vegetation	Soil X or	Hydrology	significantly dist	urbed?	Are "Normal Circumstan	ces" present? (Y/N)	Y	_
re vegetation	Soil or	Hydrology	naturally probler	natic? If needed	l, explain any answers in Re	emarks.)		-
			-					
UMMARY OF	FINDINGS – Att	ach site map	showing san	npling point	locations, transects	s, important fea	atures, etc.	
ydrophytic Vegeta	ation Present? Yes	No	<u> </u>	Is Sampled Ar	ea within			
ydric Soil Present	? Yes	No	Χ	a Wetla	nd? Yes		No X	-
etland Hydrology	Present? Yes	No	X					
emarks:								
oils are not managed within	apped as hydric an the Clackamas gray	d there's no evid	dence that we	lands were p	resent before excavati	ng this pit, or ar	ly of the three o	others that
		Sily ISam Solls.	•					
EGETATION	- Use scientific r	ames of plant	S.	Indiastar	Dominanaa Taat waa	kshoot:		
		% cover	Species?	Status	Johnnance Test Wol	NOTICEL:		
ee Stratum (pl	ot size:)			Number of Dominant Spe	cies		
I					That are OBL, FACW, or	FAC:	0	(A)
					Total Number of Dominar	nt		
4					Species Across All Strata	:	1	(B)
		0	= Total Cover					
apling/Shrub Strat	tum (plot size:)			Percent of Dominant Spe	cies		
l					That are OBL, FACW, or	FAC:	0%	(A/B)
\$					Prevalence Index We	orksheet:		
l					Total % Cover of	Multiply	by:	
					OBL Species	×1	= 0	-
			= Total Cover		FACW species	X2	= <u> </u>	-
<u>erb Stratum</u> (pl	ot size: 5)			FACU Species	x 4	= 0	-
Geranium m	olle	82	X	(UPL)	UPL Species	x 5	= 0	-
Cirsium arve	ense	5		FAC	Column Totals	0 (A)	0	(B)
Cirsium vulg	gare	5		FACU				
Elymus repe	ens	3		FAC	Prevalence Index =	B/A =	#DIV/0!	_
5								
; 					Hydrophytic Vegetat	ion Indicators:		
						1- Rapid Test for Hy	drophytic Vegetati	on
·			- Total Course			2- Dominance Test	15 >50% is < 3 0 ¹	
		30	- Total Cover			4-Morphological Ada	aptations ¹ (provide	supporting
oody Vine Stratu	m (plot size:)				data in Remarks or	on a separate shee	et)
						5- Wetland Non-Vas	scular Plants ¹	
2						Problematic Hydrop	hytic Vegetation ¹ (I	Explain)
		0	= Total Cover		¹ Indicators of hydric soil a	nd wetland hydrolog	y must be present,	unless
					disturbed or problematic.			
		E			nyaropnytic	Vaa	No	×
Bare Ground in H	Herb Stratum	5			vegetation	res		· ^

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redx Features (Inches) Color (moist) % Type ¹ Loc ² Texture 0-13 7.5YR 3/1 100 Silt Loam Silt Loam 0 7.5YR 3/1 100 Silt Loam Silt Loam 0	Remarks on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
Depth Matrix Redx Features (Inches) Color (moist) % Type ¹ Loc ² Texture 0-13 7.5YR 3/1 100 Silt Loam Silt Loam	Remarks on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils³: 2 cm Muck (A10) 2 cm Muck (A10) 2 Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
(inches) Color (moist) % 1ype Loc Texture 0-13 7.5YR 3/1 100 Silt Loam Silt Loam	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
0-13 7.5YR 3/1 100 Silt Loam	on: PL=Pore Lining, M=Matrix. >r Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
Image:	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
Image: Solution of the second seco	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
**Type:	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Loca Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: Histosol (A1) Sandy Redox (S5) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Remarks:: Excavated Hydric Soil Present? Type: Depth (inches): Type: Hydric Soil Present? Remarks: Excavated Surface Water (A1) Hydrager Sulfide (A2) 1, 2, 4A, and 4B) Saturation (A3) Sait Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Setiment Deposits (B2) Hydrogen Sulfide Odor (C1) Setiment Deposits (B3) Oxidized Rhizosphe	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
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¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Loca Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators Histosol (A1) Sandy Redox (S5) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (T3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depleted Matrix (S4) Sectoremarks: Excavated Hydric Soil Present? Primary Indicators (minimum of one required; check all that apply) Sec Saturation (A3) Sati Crust (B11) Sati Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Setiment Deposits (B2) Hydrogen Sulfide Odor (C1) Dirit Deposits (B3) Oxidized Rhizospheres along Living Roots (C3)	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Loca Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators Histosol (A1) Sandy Redox (S5)	on: PL=Pore Lining, M=Matrix. Dr Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Loca Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators Histic Epipedon (A2) Stripped Matrix (S6)	on: PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators Histosol (A1) Sandy Redox (S5)	or Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
Histosal (A1) Sandy Redox (S5)	2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (explain in Remarks)
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Restrictive Layer (if present): Type:	ogy must be present, unless disturbed or problematic.
Type:	
Depth (inches): Hydric Soil Present? Remarks: Excavated HYDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Sec Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Satl Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	
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Remarks: Excavated HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Sec Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	
Primary Indicators (minimum of one required; check all that apply) Sec Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	
Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	ndary Indicators (2 or more required)
High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Water stained Leaves (B9)
Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	(MLRA1, 2, 4A, and 4B)
Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Drainage Patterns (B10)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Geomorphic Position (D2)
	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6)	Fac-Neutral Test (D5)
Surface Soil Cracks (B6)Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
Field Observations:	
Surface Water Present? Yes NoX Depth (inches):NA	
Water Table Present? Yes No X Depth (inches): >13 Wetland Hydrology	Present?
Saturation Present? Yes No X Depth (inches): >13	Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	···
	····
	··· <u>·</u> ···
Remarks:	··· _ ···
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

v	WETLAND	DETERMIN	NATION	I DATA FOI	RM - Weste	rn Mountains, \	/alleys, a	nd Coast F	PHS # Region	7374
Project/Site: Turner Rd SE			City/County: Salem/Marion			on Sampling Date:			10/21/2021	
Applicant/Owner:	Phelan De	velopment				Sta	te: OR	Sa	mpling Point:	3
nvestigator(s):		JT		Section, To	wnship, Range:	Section	n 7, Townsl	nip 8 South, F	≀ange 2 We	st
_andform (hillslope, t	terrace, etc.:)		Ditch		Local relief (cor	ncave, convex, none):	_		Slope (%):	
Subregion (LRR):		LRR A		Lat:	44.889	4 Lor	ng: -1 :	22.9835	Datum:	WGS84
Soil Map Unit Name:	:		Sifton gr	avelly loam		NWI	Classification	ו:	N/A	
Are climatic/hydrolog	gic conditions or	n the site typical	for this time	e of year?	Yes		No X	(if no, explain	in Remarks)	
Are vegetation	Soil	or Hydrolog	IУ	significantly dist	urbed?	Are "Normal Circums	tances" prese	ent? (Y/N)	Y	
Are vegetation	Soil	or Hydrolog	IV	naturally probler	matic? If needed	, explain any answers in	Remarks.)			
·		_ , ,								
SUMMARY OF	FINDINGS	 Attach sit 	te map s	howing san	npling point	locations, transe	cts, impo	rtant feature	etc.	
Hydrophytic Vegetati	ion Present?	Yes	No	Х	ls Sampled Ar	ea within				
Hydric Soil Present?)	Yes	No	Х	a Wetlar	nd? Y	es	No	Х	
Vetland Hydrology F	Present?	Yes	No	Х						
Remarks:										
The ditch is very	old and doe	es not appear	to have b	been construe	cted in wetlan	ds.				
EGETATION -	- Use scien	tific names	of plants	S.		1				
		ab %	solute cover	Dominant Species?	Indicator Status	Dominance Test v	vorksheet:			
ree Stratum (plo	ot size:)	50101	000003:	010100	Number of Dominant	Species			
(, 1		,				That are OBL, FACW	or FAC:	C)	(A)
2						-,				. /
3						Total Number of Dom	nant			
4						Species Across All St	ata:	2	!	(B)
			0	= Total Cover						
apling/Shrub Stratu	um (plot size	:)				Percent of Dominant S	Species			
1	U	/				That are OBL, FACW	or FAC:	09	%	(A/B)
2										. ,
3						Prevalence Index	Workshee	t:		
4						Total % Cover of		Multiply by:		
5						OBL Species		x 1 =	0	
			0	= Total Cover		FACW species		x 2 =	0	
lorh Stratum (nla	nt size:	5)				FAC Species		X3=	0	
1 Geranium mo		<u> </u>	50	¥		LIPI Species		X4=	<u> </u>	
2 Daucus carof	ta		25	<u>x</u>	FACU	Column Totals	0	(A)	0	(B)
3 Raphanus sv	lvestris		5	<u> </u>	(UPL)					<-/
4 Vulpia myuro	DS		3		FACU	Prevalence Inde	x =B/A =	#DI	V /0!	
5 Cirsium arvei	nse		2		FAC					
6						Hydrophytic Vege	tation Indi	cators:		
7							1- Rapid	Test for Hydroph	ytic Vegetatio	n
8						I	2- Domina	ance Test is >50	%	
			85	= Total Cover			3-Prevale	nce Index is ≤ 3.	.0 ¹	
(+·)/' C' '	(plat a!	X					4-Morpho	logical Adaptatic	ns' (provide s	upporting
voodv Vine Stratum	n (plot size:)					data in Re	emarks or on a s	eparate sheet)
1						 	- vvetian	tic Hydrophytic \	riants	vnlain)
1						I			egetation (E)	npiairi)
1 2			0	= Total Cover		¹ Indicators of hydric se	oil and wetlen	d hydrology mus	the present .	Inless
12			0	= Total Cover		¹ Indicators of hydric so disturbed or problema	oil and wetlan tic.	d hydrology mus	t be present, ι	unless
12			0	= Total Cover		¹ Indicators of hydric so disturbed or problema Hydrophytic	bil and wetlan tic.	d hydrology mus	st be present, ι	unless

SOIL			PHS #	7374			Sampling Po	oint:	3
Profile Descr	iption: (Describe to	the depth r	needed to docume	nt the indicator or cor	nfirm the absen	ice of indicators.)			
Depth (Incluse)	Matrix	0/		Redox Features	1 co ²	Tautum	D		
(Inches)		<u>%</u>	Color (moist)	% Type	LOC	l'exture	Re De alex	marks	
0-12	7.51R 3/2	100					Коску		
	·								
	·								
¹ Type: C=Con	centration, D=Deplet	ion, RM=Re	duced Matrix, CS=0	Covered or Coated San	nd Grains.		² Location: PL=Pore Lini	ng, M=Matrix.	
Hydric Soil	Indicators: (Appl	icable to	all LRRs, unless	s otherwise noted.)	Indica	ators for Problemation	: Hydric Soil	s ³ :
	Histosol (A1)			Sandy Redo	ox (S5)		2 cm Muc	k (A10)	
	Histic Epipedon (A2)	(Stripped Ma	ıtrix (S6)		Red Parer	nt Material (TF2	.)
	Black Histic (A3)			Loamy Muck	ky Mineral (F1) (e	except MLRA 1)	Very Shal	ow Dark Surfac	æ (TF12)
	Hydrogen Sulfide (A	4)		Loamy Gley	ed Matrix (F2)		Other (exp	olain in Remark	s)
	Depleted Below Dark	< Surface (A	(11)	Depleted Ma	atrix (F3)				
	Thick Dark Surface (A12)		Redox Dark	Surface (F6)				
	Sandy Mucky Minera	ıl (S1)		Depleted Da	ark Surface (F7)		³ Indicators of hydrophyti	c vegetation an	d wetland turbed or
	Sandy Gleyed Matrix	: (S4)		Redox Depr	ressions (F8)		proble	ematic.	
Restrictive	Layer (if present)):							
Type [.]									
Depth (inche	s).	,	12			Hydric Soil Pres	sent? Yes	No	x
Demenden									
Graded Re	fusal at 12 inche	s due to r	ocks						
eruueur ree		, 440 10 1							
HYDROLC	OGY								
Wetland Hy	drology Indicato	rs:							
Primary Indi	cators (minimum d	of one real	uired: check all th	nat apply)			Secondary Indicator	rs (2 or more	required)
	Surface Water (A1)			Water stain	ed Leaves (B9) (Except MLRA	Water sta	ined Leaves (B	
	High Water Table (A	.2)		1, 2, 4A, and	d 4B)		(MLRA1,	2, 4A, and 4B)	~)
	Saturation (A3)	_/		Salt Crust (F	B11)		Drainage	Patterns (B10)	
	Water Marks (B1)			Aquatic Inve	ertebrates (B13)		Drv-Seaso	on Water Table	(C2)
	Sediment Deposits (B2)		Hvdrogen S	ulfide Odor (C1)		Saturation	ı Visible on Aeri	al Imagery (C9)
-	Drift Deposits (B3)	,		Oxidized Rh	izospheres alon	g Living Roots (C3)	X Geomorph	nic Position (D2)
	Algal Mat or Crust (E	34)		Presence of	f Reduced Iron ((C4)	Shallow A	quitard (D3)	,
	Iron Deposits (B5)	,		Recent Iron	Reduction in Plo	owed Soils (C6)	Fac-Neutr	al Test (D5)	
	Surface Soil Cracks	(B6)		Stunted or S	Stressed Plants ((D1) (LRR A)	Raised Ar	t Mounds (D6)	(LRR A)
	Inundation Visible or	م Aerial Ima	gery (B7)	Other (Expla	ain in Remarks)		Frost-Hea	ve Hummocks	(D7)
	Sparsely Vegetated	Concave Su	urface (B8)						
Field Obser	rvations:					I			
Surface Water	r Present? Ves		No X	Denth (inches):					
Water Table F	Present? Ves			Depth (inches):	>12	Wetland Hvd	rology Present?		
Saturation Pro	vegent? Veg			Depth (inches):	>12	Wettand Hyd	Voe	No	Y
(includes capilla	ry fringe)			Deptil (inches).	- 12		165		
Describe Reco	orded Data (stream q	auge, monit	oring well, aerial ph	otos, previous inspecti	ons), if available	:			
	, C	0,	0 / 1						
Remarks:									

١	WETLAND DE	TERMINATIC	N DATA FOI	RM - Weste	ern Mountains, Val	leys, and Coast	PHS # _	7374
Project/Site:	Turner Ro	I SE	City/County:	Sa	alem/Marion	Sampling Date:	11/15	/2021
Applicant/Owner:	Phelan Develo	pment			State:	OR s	ampling Point:	4
Investigator(s):	J.	г	Section, To	wnship, Range:	Section 7,	Township 8 South,	Range 2 Wes	st
Landform (hillslope,	terrace, etc.:)	Flat	_	Local relief (cor	ncave, convex, none):	Slightly concave	Slope (%):	0
Subregion (LRR):	L	RR A	Lat:	44.889	96 Long:	-122.9846	Datum:	WGS84
Soil Map Unit Name	e: Courtr	ey gravelly silty	 clay loam, 0-3 p	ercent slopes	s NWI Cla	ssification:	N/A	
Are climatic/hydrolog	gic conditions on the	site typical for this ti	me of year?	Yes	No	X (if no, explain	n in Remarks)	
Are vegetation	Soil X	or Hydrology	significantly dist	urbed?	Are "Normal Circumstand	ces" present? (Y/N)	X	
Are vegetation	Soil	or Hydrology	naturally probler	natic? If needed	l, explain any answers in Re	marks.)		
			_					
SUMMARY OF	FINDINGS –	Attach site map	showing san	npling point	locations, transects	s, important featu	res, etc.	
Hydrophytic Vegetat	tion Present? Ye	s N	o <u>X</u>	Is Sampled Ar	ea within			
Hydric Soil Present?	? Ye	s N	o <u>X</u>	a Wetlar	nd? Yes	N	o X	
Wetland Hydrology I	Present? Ye	s N	• <u>X</u>					
Remarks:								
Google historic	aerial photos sh	ow this area to h	ave been distu	rbed numerou	us times over the past	13 or so years. Prec	pitation for th	ne preceding
14 days is 4.26 ii	inches, which is	169 percent of h	ormai (2.25 inci	ies). Annual a	ind previous 5 months	raimail are below n	iormai.	
VEGETATION	- Use scientific	names of plar	nts.					
		absolute % cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:		
<u>Free Stratum</u> (plo	ot size:)			Number of Dominant Spe	cies		
1					That are OBL, FACW, or	FAC:	1 (A)
2								
3					Total Number of Dominar	ıt		
4					Species Across All Strata		2 (В)
		0	= Total Cover					
Sapling/Shrub Stratu	um (plot size:)			Percent of Dominant Spe	cies		
1					That are OBL, FACW, or	FAC: 5	0% (A/B)
2								
3					Prevalence Index Wo	orksheet:		
4					Total % Cover of	Multiply by:	_	
5					OBL Species	x 1 =	0	
		0	= Total Cover		FACW species	x 2 =	0	
Herb Stratum (plo	ot size: 5)			FACU Species	x 4 =		
1 Geranium mo	olle		x	(UPL)	UPL Species	x 5 =	0	
2 unidentified	grass	50	x	(FAC)	Column Totals	0 (A)	0 (B)
3	-						·	
4		_			Prevalence Index =	B/A = #D	IV/0!	
5								
6					Hydrophytic Vegetat	ion Indicators:		
7						1- Rapid Test for Hydrop	hytic Vegetation	
8						2- Dominance Test is >5	50%	
		100	= Total Cover			3-Prevalence Index is ≤ 4-Morphological Adaptat	3.0' tions ¹ (provide si	Innorting
)				data in Remarks or on a	separate sheet)	
Woody Vine Stratur	n (plot size:	,				E Watland Nan Vacaula	ar Plants ¹	
Woody Vine Stratum	n (plot size:)				5- welland Non-vascula		
Woody Vine Stratun	n (plot size:	,				Problematic Hydrophytic	Vegetation ¹ (Ex	plain)
Woody Vine Stratun 1 2	n (plot size:	' 	= Total Cover		¹ Indicators of hydric soil a	Problematic Hydrophytic nd wetland hydrology mu	: Vegetation ¹ (Ex ust be present, u	plain) nless
Woody Vine Stratum 1 2	<u>n</u> (plot size:) 	= Total Cover		¹ Indicators of hydric soil a disturbed or problematic.	5- Wetland Non-Vascula Problematic Hydrophytic nd wetland hydrology mu	: Vegetation ¹ (Ex ust be present, u	plain) nless
Woody Vine Stratun 1 2 4 Para Cround in U	n (plot size:	, 	= Total Cover		¹ Indicators of hydric soil a disturbed or problematic. Hydrophytic	Problematic Hydrophytic nd wetland hydrology mu	Vegetation ¹ (Ex ust be present, u	plain) nless ✔

Bellis perennis and Erodium cicutarium each constitute <1 percent in the herbaceous layer. Unidentified grass is a single species and is recently sprouted. Grass species in the vicinity include Schedonorus arundinaceus and Lollium perenne.

SOIL			PHS #	7374	_		Sampling Point:	4
Profile Descri	ption: (Describe to	the depth I	needed to docume	nt the indicator or co	onfirm the abser	nce of indicators.)		
Depth	Matrix			Redox Features	. 2	_		
(Inches)	Color (moist)	<u>%</u>	Color (moist)	% Type	Loc		Remarks	
0-3	2.5 ¥ 4/3	100				Silty Clay Loam	ROCKY	
3-7	2.5Y 4/3	90				Silty Clay Loam	Mixed	
3-7	2.51R 3/4	10				Silt Loam	Mixed - probably fill	
7-11	2.51 3/3		·			Silt Loom	Mixed	
11 14	2.51 3/4	100				Silt Loam	wixed - probably fill	
	2.51 5/5	100				Silt Loain		
¹ Type: C=Cond	centration D=Deplet	ion RM=Re	educed Matrix CS=	Covered or Coated Sa	nd Grains		² Location: PL=Pore Lining M=Ma	
Hydric Soil	Indicators: (Appl	icable to	all LRRs. unless	s otherwise noted	.)	Indica	ators for Problematic Hydric	Soils ³ :
· · , · · · · · · · · ·	Histosol (A1)		,	Sandv Red	ox (S5)		2 cm Muck (A10)	
	Histic Epipedon (A2)			Stripped M	atrix (S6)		Red Parent Material	(TF2)
	Black Histic (A3)			Loamy Mud	cky Mineral (F1) (except MLRA 1)	Verv Shallow Dark S	Surface (TF12)
	Hvdrogen Sulfide (A	4)		Loamv Gle	ved Matrix (F2)		Other (explain in Re	marks)
	Depleted Below Dark	′ « Surface (A	A11)	Depleted N	latrix (F3)			,
	' Thick Dark Surface (A12)	,	 Redox Dar	k Surface (F6)			
	Sandy Mucky Minera	il (S1)		Depleted D	ark Surface (F7)		³ Indicators of hydrophytic vegetation	on and wetland
	Sandy Gleyed Matrix	(S4)		Redox Dep	ressions (F8)		hydrology must be present, unles problematic.	s disturbed or
Restrictive	Laver (if present)	:						
Type:	, , , , , , , , , , , , , , , , , , ,							
Depth (inches	s):		12			Hydric Soil Pres	ent? Yes No	o X
Remarks:	·					,		
Highly distu is rocky.	rbed soil profile	. Red mat	erial appears to	be imported soil	with red pare	nt material rather	than redox. Soil profile from	0-11 inches
HYDROLO	GY							
wetiand Hy	arology indicato	rs:						
Primary Indic	cators (minimum o	of one req	uired; check all th	nat apply)			Secondary Indicators (2 or m	ore required)
	Surface Water (A1)	0)		1. 2. 4A. ar	ned Leaves (B9) (nd 4B)	(Except MLRA	Water stained Leave (MLRA1, 2, 4A, and	⊮s (B9) d 4B)
	High Water Table (A	2)		Salt Crust	(D11)		Dreinege Detterne //	
;	Water Marks (B1)				(DTT) vertebrates (B13)		Drainage Patterns (510) [able (C2)
	Sediment Deposits (B2)		Addate inv	Sulfide Odor (C1)	1	Dry-Geason Water 1	Aerial Imagery (C9)
	Drift Deposits (B3)	82)		Oxidized R	hizospheres alon	a Livina Roots (C3)	X Geomorphic Position	n (D2)
	Algal Mat or Crust (E	(4)		Presence of	of Reduced Iron (C4)	Shallow Aquitard (D	3)
	Iron Deposits (B5)	/		Recent Iror	n Reduction in Pl	owed Soils (C6)	Fac-Neutral Test (D	5)
	Surface Soil Cracks	(B6)		Stunted or	Stressed Plants	(D1) (LRR A)	Raised Ant Mounds	(D6) (LRR A)
	Inundation Visible or	Aerial Ima	gery (B7)	Other (Exp	lain in Remarks)		Frost-Heave Humme	ocks (D7)
	Sparsely Vegetated	Concave Su	urface (B8)					
Field Obser	vations:							
Surface Water	Present? Yes		No X	Depth (inches):				
Water Table P	resent? Yes		No X	Depth (inches):	>12	Wetland Hydr	rology Present?	
Saturation Pres (includes capillar	sent? Yes y fringe)		No X	Depth (inches):	>12		YesN	X
Describe Reco	orded Data (stream g	auge, moni	toring well, aerial ph	otos, previous inspec	tions), if available	e:		
Remarks:								
Although fie	wldwork was co	nducted	early in the rain	y season, precipit	ation for past	14 days is 189 pe	rcent of normal; therefore, s	urface
water, a hig	h water table, or	saturatio	n would be exp	ected for this area	i to meet a pri	mary indicator.		