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PACIFIC HABITAT SERVICES, INC.

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December 20, 2019

Florence Links Property Management, LLC
c/o Ashlee Sorber, General Counsel
American Pacific International Capital
2295 Rural Ave SE
Salem, OR 97302

RE: Wetland Memo Describing Existing Conditions of Site A in Florence, Oregon
PHS project number: 6867

Dear Ashlee:

Pacific Habitat Services, Inc. (PHS) conducted a wetland delineation on November 11, 2019 on three tax lots located east of Rhododendron Drive and north of 35th Street in the City of Florence, Oregon (T18S, R12W, Section 22; Tax Lot 1900; Section 15; Tax Lots 3800 and 700). No Wetlands are present on the site.

The purpose of this letter is to summarize the results of the wetland delineation, describe existing conditions, and to discuss the methods used to delineate the site.

Existing Conditions

The study area is located east of Rhododendron Drive and north of 35th Street, approximately 680 feet east of the Siuslaw River and 0.9 miles west of Highway 101 in Florence, Lane County, Oregon. Land use surrounding the study area is composed of residential development to the north, east, south, and west. The study area is approximately 8.41 acres in size, undeveloped, and overgrown with shore pine (*Pinus contorta*, FAC), salal (*Gaultheria shallon*, FACU), evergreen blueberry (*Vaccinium ovatum*, FACU), and Himalayan blackberry (*Rubus armeniacus*, FAC). The central study area contains some cleared vegetation from frequent encampments. Some areas contain patchy growth of slough sedge (*Carex obnupta*, OBL); however, these areas are infrequent and reside in either excavated ditches or shallow depressions. A few excavated ditches reside in the central-northern study area, and one large excavated ditch resides to the south, adjacent to properties along 35th Street. These ditches appear to convey seasonal runoff into other stormwater conveyances offsite; however neighboring residents do not observe flowing water within these ditches consistently each year.

Topography of the study area consists of rolling gradual slopes with elevations ranging between approximately 56-70 feet NAVD88 according to LiDAR obtained through the Oregon Department of Geology and Mineral Industries (DOGAMI, 2009). Mapped soil units within the study area consist of Yaquina loamy fine sand (Hydric soil typically found in wetland), and Waldport fine sand (0-12% slopes).

The National Wetland Inventory (NWI) displays a riverine wetland traversing through the southern study area, which did not align with findings during the delineation. The southern study area is populated by shore pine and contains upland sandy areas. This discrepancy between the NWI and PHS's findings is likely due to a lack of detailed ground-truth investigations during the NWI mapping process, which relies heavily on aerial photo interpretation.

The Local Wetland Inventory (LWI) displays two small wetlands within the study area; one is mapped in the northeast corner where hydric soils are located, and the other is located to the south, within the same vicinity as the large excavated ditch. Both of these areas were investigated for wetlands as characterized by sample points 1 and 3, which do not meet wetland criteria. Sample points 1 and 3 are dominated by shore pine, salal, evergreen blueberry, scotch broom (*Cytisus scoparius*, UPL), manzanita (*Arctostaphylos uva-ursi*, FACU), orchard grass (*Dactylis glomerata*, FACU), slough sedge, and colonial bentgrass (*Agrostis capillaris*, FAC). Both soils consist of sand to loamy sand, with high-chroma matrices. Some areas are overlain by a dark-surface loamy sand with some gravel. No hydrology was present on site with the exception of geomorphic position for excavated ditch areas. Sample point 1 is located slightly north of the mapped wetland, because this area was lower in elevation and contained wetland vegetation.

On-site Determination of Wetlands or Waterways

PHS conducted a wetland delineation throughout the property, concentrating primarily on the areas of lowest topography and looking for conditions that might satisfy criteria for wetlands (wetland hydrology, hydric soils, and hydrophytic vegetation), or waters of the State or United States. Observations were made 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* and applicable sections of Oregon Administrative Rule (OAR) 141-090.

The site visit was limited to the documentation of existing vegetation and the excavation of several shallow holes across the study area to observe potential evidence of hydric soils and/or seasonally saturated conditions. Based upon the results of our assessment, no jurisdictional wetlands or waters of the State/U.S. were found within the study area as shown on Figure A.

State and Federal Jurisdiction

Upland areas (areas excluding wetlands or waterways) are not subject to state and federal regulation; therefore, no State or Federal environmental permits are needed to develop the property identified in Figure A.

Local Jurisdiction

As the property is located within the city limits of Florence, any natural resources protection measures are applied through the City's Land Use regulations and code. The City or County will typically require a land use application to evaluate that the development complies with local regulations protecting natural resources, and may require a land development permit. PHS suggests a site meeting with City to determine land use compatibility.

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.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Carlee Michelson".

Carlee Michelson
Natural Resource Specialist

Enclosure: Figure A

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

Project/Site: Site A - Wetland Delineation City/County: Florence/Lane Sampling Date: 11/11/2019
 Applicant/Owner: Florence Links Property Management, LLC State: OR Sampling Point: 1
 Investigator(s): CT/CR Section, Township, Range: Section 22, Township 18S, Range 12W
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): ~2
 Subregion (LRR): LRR A Lat: 43.9992 Long: -124.118 Datum: WSG85
 Soil Map Unit Name: Waldport fine sand NWI Classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)

Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y

Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status	
Tree Stratum (plot size: <u>30</u>)				
1 <u><i>Pinus contorta</i></u>	<u>5</u>	<u>X</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>50%</u> (A/B)
2 _____	_____	_____	_____	
3 _____	_____	_____	_____	
4 _____	_____	_____	_____	
	<u>5</u>	= Total Cover		
Sapling/Shrub Stratum (plot size: <u>15</u>)				
1 <u><i>Gaultheria shallon</i></u>	<u>30</u>	<u>X</u>	<u>FACU</u>	Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL Species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC Species _____ x 3 = <u>0</u> FACU Species _____ x 4 = <u>0</u> UPL Species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index =B/A = <u>#DIV/0!</u>
2 <u><i>Vaccinium ovatum</i></u>	<u>20</u>	<u>X</u>	<u>FACU</u>	
3 <u><i>Cytisus scoparius</i></u>	<u>5</u>	_____	<u>UPL</u>	
4 <u><i>Rubus armeniacus</i></u>	<u>5</u>	_____	<u>FAC</u>	
5 _____	_____	_____	_____	
	<u>60</u>	= Total Cover		
Herb Stratum (plot size: <u>5</u>)				
1 <u><i>Dactylis glomerata</i></u>	<u>30</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: _____ 1- Rapid Test for Hydrophytic Vegetation _____ 2- Dominance Test is >50% _____ 3-Prevalence Index is ≤ 3.0 ¹ _____ 4-Morphological Adaptations ¹ (provide supporting data in Remarks or on a separate sheet) _____ 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.
2 <u><i>Carex obnupta</i></u>	<u>15</u>	<u>X</u>	<u>OBL</u>	
3 <u><i>Agrostis capillaris</i></u>	<u>15</u>	<u>X</u>	<u>FAC</u>	
4 <u><i>Holcus lanatus</i></u>	<u>10</u>	_____	<u>FAC</u>	
5 <u><i>Hypochaeris radicata</i></u>	<u>5</u>	_____	<u>FACU</u>	
6 _____	_____	_____	_____	
7 _____	_____	_____	_____	
8 _____	_____	_____	_____	
	<u>75</u>	= Total Cover		
Woody Vine Stratum (plot size: _____)				
1 _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2 _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>25</u>				

Remarks:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	2.5Y 5/3	100					Sand	Fine

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Redox (S5)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)	☐ Red Parent Material (TF2)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Other (explain in Remarks)
☐ 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)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
☐ Surface Water (A1)	☐ Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	☐ Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
☐ High Water Table (A2)	☐ Salt Crust (B11)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☒ Geomorphic Position (D2)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Plowed Soils (C6)	☐ Fac-Neutral Test (D5)
☐ Iron Deposits (B5)	☐ Stunted or Stressed Plants (D1) (LRR A)	☐ Raised Ant Mounds (D6) (LRR A)
☐ Surface Soil Cracks (B6)	☐ Other (Explain in Remarks)	☐ Frost-Heave Hummocks (D7)
☐ Inundation Visible on Aerial Imagery (B7)		
☐ Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? Yes ☐ No ☒

(includes capillary fringe)

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Site A - Wetland Delineation City/County: Florence/Lane Sampling Date: 11/11/2019
 Applicant/Owner: Florence Links Property Management, LLC State: OR Sampling Point: 2
 Investigator(s): CT/CR Section, Township, Range: Section 22, Township 18S, Range 12W
 Landform (hillslope, terrace, etc.): Trench Local relief (concave, convex, none): Concave Slope (%): 2
 Subregion (LRR): LRR A Lat: 44 Long: -124.1172 Datum: WSG85
 Soil Map Unit Name: Waldport fine sand NWI Classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)

Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y

Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status	
Tree Stratum (plot size: <u>30</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>60%</u> (A/B)
1 <i>Pinus contorta</i>	5	X	FAC	Prevalence Index Worksheet: Total % Cover of _____ Multiply by: OBL Species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC Species _____ x 3 = <u>0</u> FACU Species _____ x 4 = <u>0</u> UPL Species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index =B/A = <u>#DIV/0!</u>
2 _____				
3 _____				
4 _____				
5 _____				
	5	= Total Cover		
Sapling/Shrub Stratum (plot size: <u>15</u>)				
1 <i>Gaultheria shallon</i>	70	X	FACU	
2 <i>Rubus armeniacus</i>	30	X	FAC	
3 _____				
4 _____				
5 _____				
	100	= Total Cover		
Herb Stratum (plot size: <u>5</u>)				
1 <i>Agrostis capillaris</i>	50	X	FAC	
2 <i>Dactylis glomerata</i>	40	X	FACU	
3 <i>Holcus lanatus</i>	20		FAC	
4 _____				
5 _____				
6 _____				
7 _____				
8 _____				
	110	= Total Cover		
Woody Vine Stratum (plot size: _____)				
1 _____				
2 _____				
	0	= Total Cover		
% Bare Ground in Herb Stratum <u>0</u>				
Remarks:				Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0 ¹ 4-Morphological Adaptations ¹ (provide supporting data in Remarks or on a separate sheet) 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 Present? Yes <u>X</u> No _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 5/3	100					Sand	~60% Gravel
7-13	2.5Y 5/4	100					Sand	
13-16	2.5YR 5/4	98	10YR 4/6	2	C	M	Sand	Fine

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Redox (S5)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)	☐ Red Parent Material (TF2)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Other (explain in Remarks)
☐ 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)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
☐ Surface Water (A1)	☐ Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	☐ Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
☐ High Water Table (A2)	☐ Salt Crust (B11)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☒ Geomorphic Position (D2)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Plowed Soils (C6)	☐ Fac-Neutral Test (D5)
☐ Iron Deposits (B5)	☐ Stunted or Stressed Plants (D1) (LRR A)	☐ Raised Ant Mounds (D6) (LRR A)
☐ Surface Soil Cracks (B6)	☐ Other (Explain in Remarks)	☐ Frost-Heave Hummocks (D7)
☐ Inundation Visible on Aerial Imagery (B7)		
☐ Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches):

Water Table Present? Yes ☐ No ☒ Depth (inches):

Saturation Present? Yes ☐ No ☒ Depth (inches):

(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: **Site A - Wetland Delineation** City/County: **Florence/Lane** Sampling Date: **11/11/2019**

Applicant/Owner: **Florence Links Property Management, LLC** State: **OR** Sampling Point: **3**

Investigator(s): **CT/CR** Section, Township, Range: **Section 22, Township 18S, Range 12W**

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): **None** Slope (%): **1**

Subregion (LRR): **LRR A** Lat: **44.0005** Long: **-124.1181** Datum: **WSG85**

Soil Map Unit Name: **Yaquina loamy fine sand** NWI Classification: **None**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes **X** No _____ (if no, explain in Remarks)

Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) **Y**

Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No X	Is Sampled Area within a Wetland? Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes _____ No X	
Remarks:		

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status	
Tree Stratum (plot size: _____)				Dominance Test worksheet:
1 _____				Number of Dominant Species
2 _____				That are OBL, FACW, or FAC: 0 (A)
3 _____				Total Number of Dominant
4 _____				Species Across All Strata: 4 (B)
	0	= Total Cover		Percent of Dominant Species
Sapling/Shrub Stratum (plot size: 15)				That are OBL, FACW, or FAC: 0% (A/B)
1 Cytisus scoparius	50	X	UPL	Prevalence Index Worksheet:
2 Gaultheria shallon	30	X	FACU	
3 Arctostaphylos uva-ursi	20	X	FACU	
4 _____				
5 _____				
	100	= Total Cover		Total % Cover of _____ Multiply by: _____
Herb Stratum (plot size: 5)				OBL Species _____ x 1 = 0
1 Dactylis glomerata	65	X	FACU	FACW species _____ x 2 = 0
2 Holcus lanatus	15		FAC	FAC Species _____ x 3 = 0
3 Agrostis capillaris	10		FAC	FACU Species _____ x 4 = 0
4 Hypochaeris radicata	10		FACU	UPL Species _____ x 5 = 0
5 _____				Column Totals 0 (A) 0 (B)
6 _____				Prevalence Index = B/A = #DIV/0!
7 _____				Hydrophytic Vegetation Indicators:
8 _____				
	100	= Total Cover		
Woody Vine Stratum (plot size: _____)				
1 _____				
2 _____				1- Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		2- Dominance Test is >50%
% Bare Ground in Herb Stratum 0				3-Prevalence Index is ≤ 3.0 ¹
Remarks:				4-Morphological Adaptations ¹ (provide supporting data in Remarks or on a separate sheet)
				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 Present? Yes _____ No X

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy Sand	40% Gravel
10-13	2.5Y 6/3	100					Sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Redox (S5)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)	☐ Red Parent Material (TF2)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Other (explain in Remarks)
☐ 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)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes No

X

Remarks:

Disturbed Soils

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
☐ Surface Water (A1)	☐ Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	☐ Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
☐ High Water Table (A2)	☐ Salt Crust (B11)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Geomorphic Position (D2)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Plowed Soils (C6)	☐ Fac-Neutral Test (D5)
☐ Iron Deposits (B5)	☐ Stunted or Stressed Plants (D1) (LRR A)	☐ Raised Ant Mounds (D6) (LRR A)
☐ Surface Soil Cracks (B6)	☐ Other (Explain in Remarks)	☐ Frost-Heave Hummocks (D7)
☐ Inundation Visible on Aerial Imagery (B7)		
☐ Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes No

X

Water Table Present? Yes No

X

Saturation Present? Yes No

X

(includes capillary fringe)

Depth (inches):

Depth (inches):

>13

Depth (inches):

>13

Wetland Hydrology Present? Yes No

X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Site A - Wetland Delineation City/County: Florence/Lane Sampling Date: 11/11/2019
 Applicant/Owner: Florence Links Property Management, LLC State: OR Sampling Point: 4
 Investigator(s): CM/CR Section, Township, Range: Section 22, Township 18S, Range 12W
 Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave Slope (%): 2
 Subregion (LRR): LRR A Lat: 43.9998 Long: -124.1194 Datum: WSG85
 Soil Map Unit Name: Waldport fine sand NWI Classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)

Are vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? (Y/N) Y

Are vegetation _____ Soil _____ or Hydrology _____ naturally problematic? If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

VEGETATION - Use scientific names of plants.

	absolute % cover	Dominant Species?	Indicator Status	
Tree Stratum (plot size: <u>30</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>50%</u> (A/B)
1 <u><i>Pinus contorta</i></u>	<u>80</u>	<u>X</u>	<u>FAC</u>	
2 _____	_____	_____	_____	
3 _____	_____	_____	_____	
4 _____	_____	_____	_____	
	<u>80</u>	= Total Cover		
Sapling/Shrub Stratum (plot size: <u>15</u>)				Prevalence Index Worksheet: Total % Cover of _____ Multiply by: _____ OBL Species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC Species _____ x 3 = <u>0</u> FACU Species _____ x 4 = <u>0</u> UPL Species _____ x 5 = <u>0</u> Column Totals <u>0</u> (A) <u>0</u> (B) Prevalence Index =B/A = <u>#DIV/0!</u>
1 <u><i>Vaccinium ovatum</i></u>	<u>100</u>	<u>X</u>	<u>FACU</u>	
2 <u><i>Gaultheria shallon</i></u>	<u>20</u>	_____	<u>FACU</u>	
3 <u><i>Rhododendron sp</i></u>	<u>5</u>	_____	<u>(FAC)</u>	
4 _____	_____	_____	_____	
5 _____	_____	_____	_____	
	<u>125</u>	= Total Cover		
Herb Stratum (plot size: _____)				Hydrophytic Vegetation Indicators: _____ 1- Rapid Test for Hydrophytic Vegetation _____ 2- Dominance Test is >50% _____ 3-Prevalence Index is ≤ 3.0 ¹ _____ 4-Morphological Adaptations ¹ (provide supporting data in Remarks or on a separate sheet) _____ 5- Wetland Non-Vascular Plants ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)
1 _____	_____	_____	_____	
2 _____	_____	_____	_____	
3 _____	_____	_____	_____	
4 _____	_____	_____	_____	
5 _____	_____	_____	_____	
6 _____	_____	_____	_____	
7 _____	_____	_____	_____	
8 _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Woody Vine Stratum (plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1 _____	_____	_____	_____	
2 _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
% Bare Ground in Herb Stratum <u>100</u>				

Remarks:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/2	100					Sand	Organic
2-12	10YR 5/3	100					Sand	
12-14	10YR 2/1	100					Sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Redox (S5)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)	☐ Red Parent Material (TF2)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (except MLRA 1)	☐ Very Shallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Other (explain in Remarks)
☐ 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)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes No

Remarks:

Disturbed Soils

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
☐ Surface Water (A1)	☐ Water stained Leaves (B9) (Except MLRA 1, 2, 4A, and 4B)	☐ Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B)
☐ High Water Table (A2)	☐ Salt Crust (B11)	☐ Drainage Patterns (B10)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☒ Geomorphic Position (D2)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Shallow Aquitard (D3)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Plowed Soils (C6)	☐ Fac-Neutral Test (D5)
☐ Iron Deposits (B5)	☐ Stunted or Stressed Plants (D1) (LRR A)	☐ Raised Ant Mounds (D6) (LRR A)
☐ Surface Soil Cracks (B6)	☐ Other (Explain in Remarks)	☐ Frost-Heave Hummocks (D7)
☐ Inundation Visible on Aerial Imagery (B7)		
☐ Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present? Yes No

(includes capillary fringe)

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: