Florence Streets Wetland Delineation

Florence, OR Wetland Delineation

Prepared for:
City of Florence

November 2024



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Introduction

Rabe Consulting was contracted by the City of Florence to perform a wetland investigation and determination of the property located in Florence (Lane County), Oregon. Preliminary pre-field review of the study area indicated the presence of potential wetlands based on aerial photographs and National and Local Wetland Inventory maps.

This report presents the results of the Florence Streets Wetland Determination, which was conducted by Andréa Rabe of Rabe Consulting on October 9, 2024. Andréa Rabe, a Professional Wetland Scientist, has 24 years of experience conducting wetland delineations. She has been trained in the use of the Army Corps of Engineers Western Mountains, Valleys and Coast Region Supplement for conducting wetland delineations.

This report documents the investigation, best professional judgment, and conclusions of the investigators. It should be considered a Preliminary Jurisdictional Delineation and used at your own risk until it has been reviewed and approved in writing by the Oregon Department of State Lands and U.S. Army Corps of Engineers. The overall project objective is to develop the parcel for commercial uses.

A. Landscape Setting and Land Use

The study area is 3.03 acres in Florence, Oregon in Lane County (Appendix A: Figure 1). The legal description of the study area encompasses street right of ways in T18S R6W Section 27 (Appendix A: Figure 2).

The study area is currently vacant open space with dense shrubs and woodland. The area to the north is developed as residential. The area to the south has commercial developments. The study area is extensions of 10th Street, 11th Street, and Greenwood Street. The study area includes the proposed future streets right of ways.

During the field visit on October 9, 2024 site visit, the conditions were rainy at the end of the growing season.

B. Site Alterations

There does not appear to be site alterations within the study area. The study area does not appear to have topographic changes (i.e. leveling, grading).

C. Precipitation Data and Analysis

The closest weather station to the project that contains the most complete record for the creation of the WETS table is at HONEYMAN STATE PARK, OR located approximately 3.5 miles south of the study area. The area received 0.23 inches of precipitation from September 25 to October 8, 2024, the 14 days prior to the field visit. There was 0.02 inches of precipitation on October 9, 2024, the day of the field visit. The area experienced relatively normal precipitation levels in summer and autumn.

The following is based on the WETS Table for the HONEYMAN STATE PARK, OR station.

Table 1 - Summary of precipitation between July and October 9, 2024, at the HONEYMAN STATE PARK, OR weather station (data accessed from AgACIS database). Data was accessed from the weather station closest to the site with the most complete WETS table record.

Summary of Precipitation between July - October 9, 2024, and comparison to 1992-2021 WETS Table							
Month	Total Precipitation (in.)	Normal Range WETS (in.)	Within Normal Range?	Monthly Average (in.)	Departure From Average		
July	M0.42	0.17 – 0.57	Yes	0.56	- 0.14		
August	0.71	0.27 – 0.77	Yes	0.66	+ 0.05		
September	2.77	0.97 – 2.99	Yes	2.47	+ 0.3		
October 1-9 (prorated)	1.63	0.97 – 1.96	Yes	1.62	+ 0.01		

Table 2 - Summarization of WETS table for 1992-2021 HONEYMAN STATE PARK., OR (the most complete WETS table record for the region).

WETS Station: ONEYMAN STATE PARK, OR									
uested years: 1992 - 2021									
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall	
Jan	50.3	38.3	44.3	10.43	7.96	12.13	15	0.1	
Feb	52.0	38.3	45.2	8.36	5.84	9.93		0.1	
Маг	54.6	38.9	46.7	8.05	5.87	9.48	14	0.0	
Apr	58.2	41.3	49.7	5.89	4.32	6.92	11	0.0	
May	62.2	45.7	53.9	2.95	1.53	3.59	7	0.0	
Jun	65.0	49.0	57.0	2.41	1.21	2.95	4	0.0	
Jul	68.0	50.5	59.2	0.56	0.17	0.57	1	0.0	
Aug	68.3	51.4	59.8	0.66	0.27	0.77	1	0.0	
Sep	67.0	49.8	58.4	2.47	0.97	2.99	3	0.0	
Oct	61.0	45.4	53,2	5.57	3,36	6.75	9	0.0	
Nov	53.8	41.5	47.6	9.89	7.23	11,63		0.0	
Dec	49.0	37.7	43.4	11.85	9.00	13.80	15	0.0	
Annual:						É			
Average	59.1	44.0	51.5	- 2	18	- 61	-		
Total	-	-		69.07			-	0.3	

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D. Methods

Rabe Consulting conducted a wetland delineation within the study area which encompasses road right of ways. The methods used to delineate the study area followed the Western Mountains, Valleys, and Coast Regional Supplement.

The delineation was conducted on October 9, 2024, using the criteria outlined in the ACOE Manual as supplemented by the Western Mountains, Valleys, and Coast Regional Supplement. Western Mountains, Valleys and Coast Wetland Delineation data forms were used to record soils, vegetation, and hydrology data at sample plots within the study area (Appendix B).

Data plots were used to test for wetland presence within the study area. Representative plots are included in the report. Plot locations within the study area were chosen based on location of the former cranberry bogs, aerial imagery, soil types, and observations of hydrology and topography during the field visit. Photo points were also taken with the direction of the photo noted. The study area boundary, photo points, and data plots were identified with a Trimble Juno 3B GPS unit with DGNSS/SBAS, with post-processing accuracy of 0.425 m.

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

A wetland drainage crossed from north to south through the study area. The majority of the wetland drainage was outside of the wetland, with two small portions crossing into the wetland. The drainage continues south, to the west of the study area through a culvert under 9th Street and to the north through a residential area.

Wetland 1

The northern portion of the wetland drainage crossing into the study area is Wetland 1, 0.133 acres. Wetland 1 is classified as a riverine (R4SBC). The wetland is a perennial wetland drainage which extends to the southwest and northeast outside of the study area. The hydrologic

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input is direct precipitation and runoff for the immediately surrounding area. The wetland may be fish bearing. There are anadromous fish passage downstream, therefore anadromous fish are not located in the wetland.

Wetland 2

The southern portion of the wetland drainage crossing into the study area is Wetland 2, 0.004 acres. Wetland 2 is classified as a riverine (R4SBC). The wetland is a perennial wetland drainage which extends to the west outside of the study area. The hydrologic input is direct precipitation and runoff for the immediately surrounding area. The wetland may be fish bearing. There are anadromous fish passage downstream, therefore anadromous fish are not located in the wetland.

Upland Areas

The remainder of the study area (2.893 acres) consists of uplands. The upland portion of the study area did not exhibit hydrologic indicators or concave topography. The upland exhibits dense trees and shrubs.

F. Deviation from LWI or NWI

The Local Wetland Inventory (LWI) covers this area. The LWI maps indicate there is a riverine wetland feature to the west of the study area, crossing the study area just north of the delineated wetland drainage. The delineation depicts this feature but in a slightly different location. The mapping difference is likely due to the dense vegetation.

A review of the National Wetlands Inventory Map (Appendix A – Maps, Figure 3) indicates the presence of a riverine wetland within the study area, to the south and east of the wetland drainage identified during the site visit. The scale and methodology used to produce the NWI map (high altitude aerial photography interpretation) imposes some limitations on the accuracy of the NWI maps. It is highly recommended to field check NWI map data, as was done in this case.

The wetland delineation identified a wetland drainage in a slightly different location than the NWI maps. The mapping discrepancy is likely due to dense vegetation obscuring the wetland footprint in aerial photographs used for NWI mapping.

G. Mapping Methods

All data plots, study area boundaries, and wet feature boundaries were mapped using a Trimble Juno 3B GPS unit with DGNSS/SBAS, with post-processing accuracy of 0.425 m horizontal error (number of satellites 6). Data was post-processed and maps were generated utilizing ArcGIS.

H. Jurisdictional Information

Two wetland portions were identified in the study area, which are likely considered jurisdictional according to the DSL or ACOE guidelines.

I. Results and Conclusion

The study area (3.03 acres) contains upland (2.893 acres), two vegetated wetland drainages (Wetland 1, 0.133 acres; Wetland 2, 0.004 acres) and no waterways.

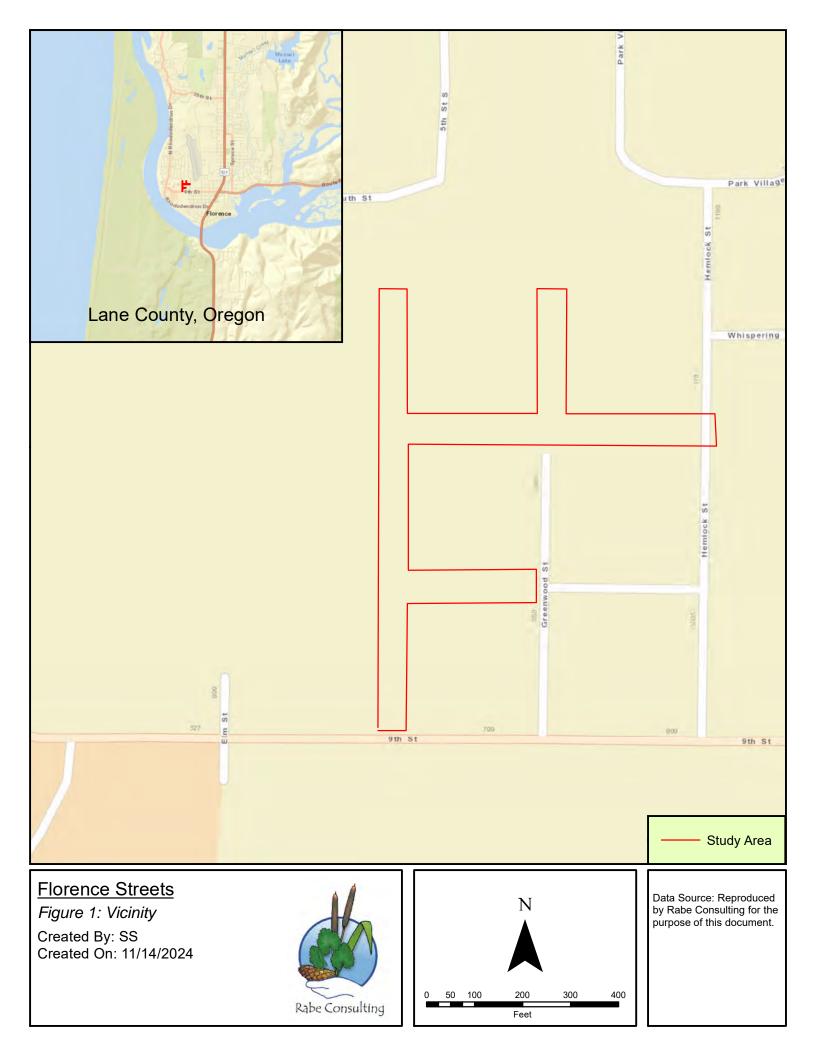
J. Disclaimer

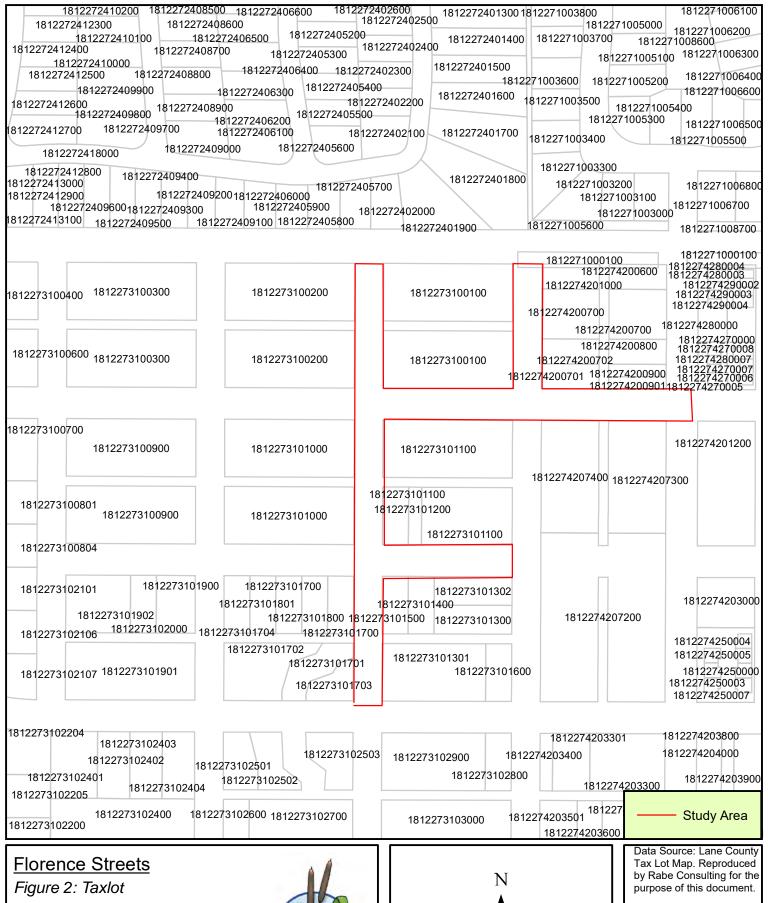
This report documents the investigation, best professional judgment, and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been reviewed and approved in writing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

Respectfully submitted,

Andréa Rabe, PWS

Appendix A Maps

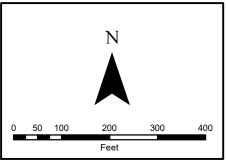




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FOR ASSESSMENT AND TAXATION ONLY

N.E.1/4 S.W.1/4 SEC. 27 T.18S. R.12W. W.M. Lane County

18122731 FLORENCE

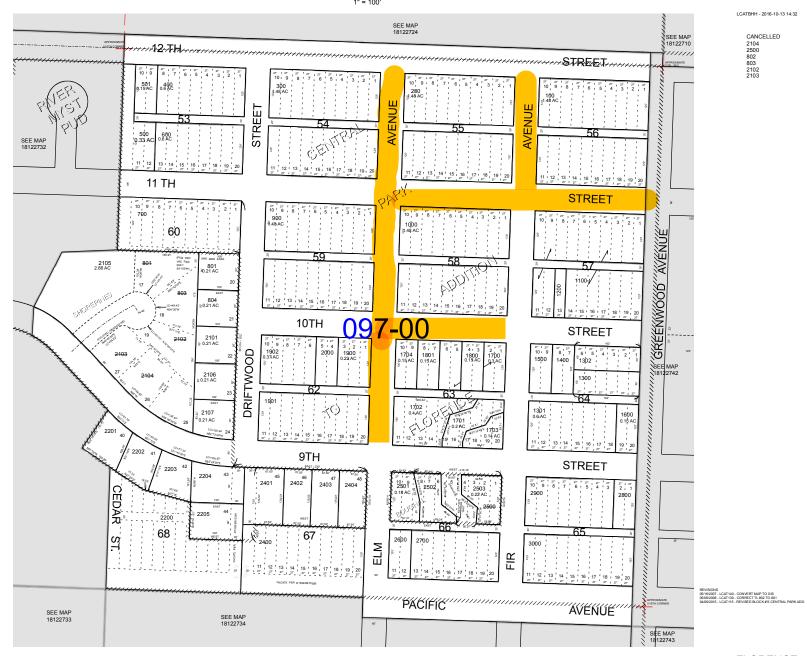
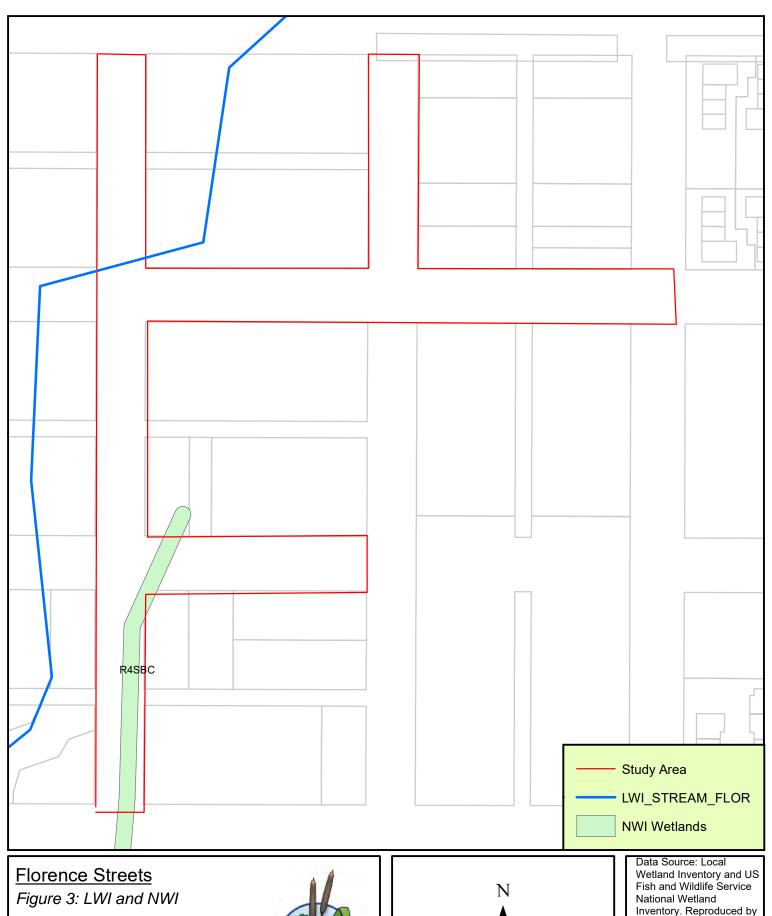


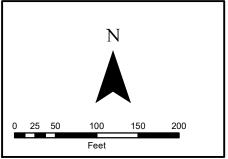
FIGURE 2a: ORMAP TaxLot Map

FLORENCE 18122731



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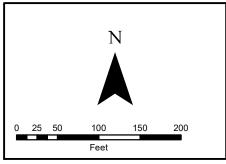


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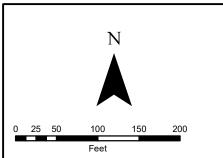


Florence Streets

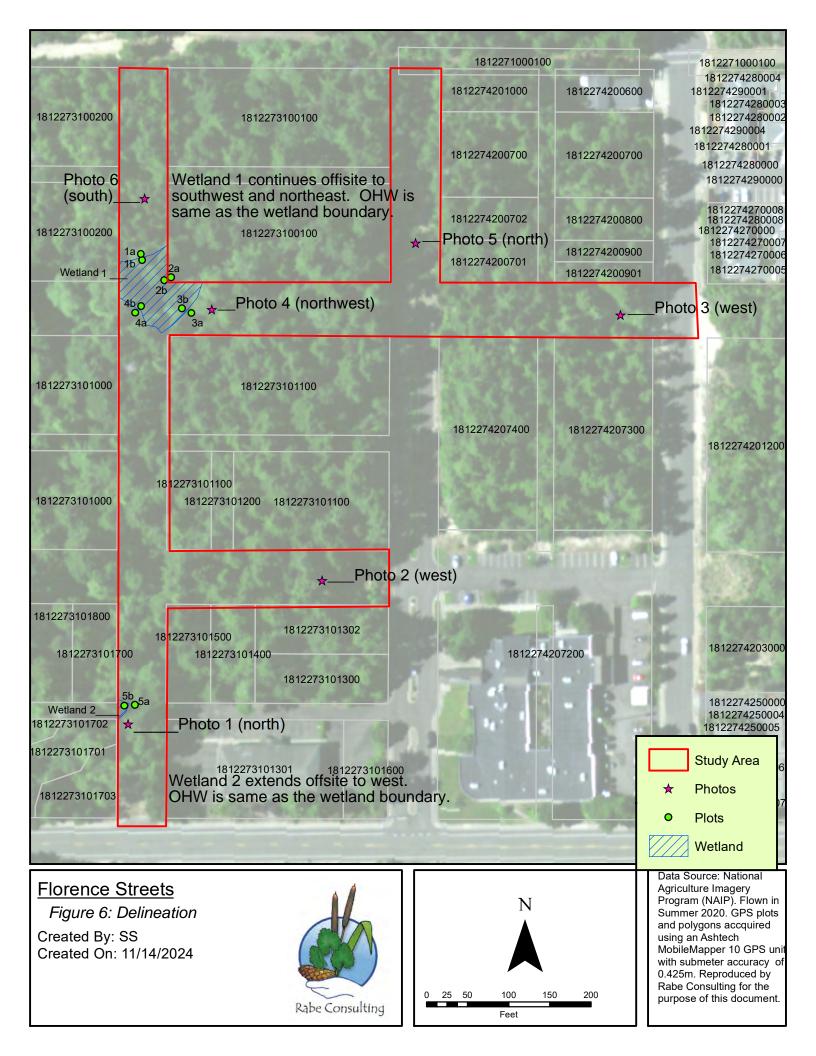
Figure 5: Aerial

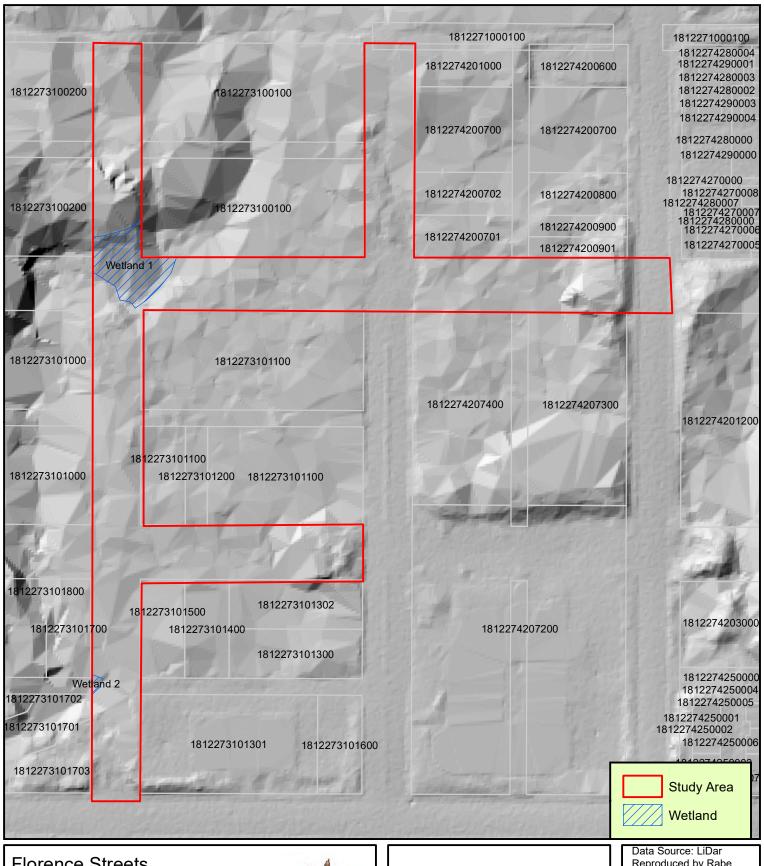
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Data Source: National Agriculture Imagery Program (NAIP). Flown in Summer 2020. Reproduced by Rabe Consulting for the purpose of this document.





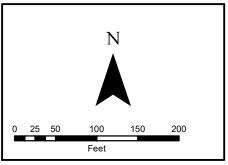
Florence Streets

Figure 7: Lidar

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Appendix B Data Forms

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

Project/Site: Street extension
Investigator(s): Robe Section, Township, Range: TIBS RIZW 527 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Conwey Slope (%) Subregion (LRR): CRA Lat: 42,976568 Long: -124, 1/50 Datum: N Soil Map Unit Name: /3/C Ricley - Kearting Silt Logges NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No No No No Wetland Hydrology Present? Yes No
Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Commun. Slope (%) Subregion (LRR): LRX Lat: 43,976568 Long: -124, 1150 Datum: N Soil Map Unit Name: 131C Pickey - Keerting Silt Loems NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No Soil Is the Sampled Area within a Wetland? Yes No Soil Present? Yes N
Subregion (LRR): CRA Lat: 42,976568 Long: -124, 1/50 Datum: Note of the state of the state of the state of year? Yes No (If no, explain in Remarks.) Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are vegetation or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic vegetation Present? Yes No Suttain a Wetland? Yes Suttain a
Soil Map Unit Name: /3/C Pickey - Keerting Silt Joems NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No No Normal Circumstances" present? Yes No No No Normal Circumstances present? Yes No
Are climatic / hydrologic conditions on the site typical for this time of year? Are vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No 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 Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No VEGETATION — Use scientific names of plants. Tree Stratum (Plot size: 10 m 2)
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No No Normal Circumstances present? Yes No Normal Circumstances present?
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SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No D Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No D Remarks: UPSUPE OF WETLAND Aracnage VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 10 m 2) Absolute Species? Status Dominant Indicator Species? Status Dominance Test worksheet: Number of Dominant Species That
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Wetland Hydrology Present? Yes No F Remarks: UPSLOPE OF WITTAND drawnage VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 10m²) Absolute Dominant Indicator Species? Status 1. Pseudot suga mentics SD TY FACU Number of Dominant Species That
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1. Pseudotsuga mentles, 80 # y FACU Number of Dominant Species That
3 Total Number of Dominant Species Across All Strata:
=Total Cover Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:) Are OBL, FACW, or FAC:
1. Kutos Gaulthingshally 50 y facu
2. Vaccinium Ovalifoiium 30 9 UPO Prevalence Index worksheet:
3Total % Cover of: Multiply by:
4 OBL species x1 =
5. FACW species x 2 = FAC species x 3 =
775
Hudrophysic Vegetation Indicators
C Double Total State Management of the Company of t
2 Descious Tastic SEOV
a. Downstraw Indian Co.
9. 4 - Morphological Adaptations ¹ (Provide sup
10. data in Remarks or on a separate sheet
11. 5 - Wetland Non-Vascular Plants ¹
=Total Cover Problematic Hydrophytic Vegetation¹ (Expl
Woody Vine Stratum (Plot size:) 1. Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.
2
Total Cover Hydropnytic
% Bare Ground in Herb Stratum Vegetation Present? Yes No
Remarks:

epth Matrix	h needed to docum Redox F		tor or c	onfirm the	absence of i	iluicators.j		
nches) Color (moist) %	Color (moist)	% Type ¹	Loc ²	Tex	tura	Remarks		
	Color (moist)	70 1900				Remarks		
1000			_		Hev_			
7-20 7.5 YRYZ 100				Sa	na _			
1								
ype: C=Concentration, D=Depletion, RM=F	Reduced Matrix CS=	Covered or Co	- Pated S	and Grains	² Locatio	n: PL=Pore Lining, M=	Matrix	
ydric Soil Indicators: (Applicable to all LI			Julieu Ci	and Orams.		or Problematic Hydric		
Histosol (A1)	Sandy Gleyed					ick (A10) (LRR A, E)	coms .	
Histic Epipedon (A2)	Sandy Redox					nganese Masses (F12)	(LRR D	
Black Histic (A3)	Stripped Matr				_	ent Material (F21)	,	
Hydrogen Sulfide (A4)		Mineral (F1) (except	MLRA 1)		allow Dark Surface (F2)	2)	
1 cm Muck (A9) (LRR D, G)	Loamy Gleyer					explain in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Mat							
Thick Dark Surface (A12)	Redox Dark S	Surface (F6)			3Indicators o	f hydrophytic vegetation	and	
Sandy Mucky Mineral (S1)	Depleted Dark	k Surface (F7)			wetland	hydrology must be pres		
2.5 cm Mucky Peat or Peat (S2) (LRR G)	Redox Depres	ssions (F8)			unless d	listurbed or problematic		
estrictive Layer (if observed):								
contiente Layer (il observea).								
Type:								
	_			Hydric So	oil Present?	Yes	No.	
Type: Depth (inches):	Water-Stained	ly) d Leaves (B9) ((except		Secondary II	Yes	uired)	
Type: Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1)	Water-Stained	d Leaves (B9) (2, 4A, and 4B)	(except		Secondary II Water-S 4A, a	ndicators (2 or more reg tained Leaves (B9) (ML	uired)	
Type: Depth (inches): emarks: POROLOGY Setland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained	d Leaves (B9) (2, 4A, and 4B) 1)	(except		Secondary II Water-S 4A, a Drainage Dry-Sea	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2)	uired)	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: cimary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul	d Leaves (B9) (2, 4A , and 4B) 1) ebrates (B13) fide Odor (C1)			Secondary II Water-S 4A, a Drainage Dry-Sea Saturatio	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Image	uired)	
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Type: Depth (inches): emarks: POROLOGY Tetland Hydrology Indicators: rimary Indicators (minimum of one is require) 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)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (C	iving Ro C4) led Soils	pots (C3)	Secondary II Water-S 4A, a Drainage Dry-Sea Saturatic Geomore Shallow FAC-Net	ndicators (2 or more required tained Leaves (B9) (ML and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagination (D2) Aquitard (D3) utral Test (D5)	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Setland Hydrology Indicators: cimary Indicators (minimum of one is require) 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-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C eduction in Till ressed Plants (iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is require) 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 Imagery (B7)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C eduction in Till ressed Plants (iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required tained Leaves (B9) (ML and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagination (D2) Aquitard (D3) utral Test (D5)	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Tetland Hydrology Indicators: rimary Indicators (minimum of one is require) 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 Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C eduction in Till ressed Plants (iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Tetland Hydrology Indicators: Imary Indicators (minimum of one is require) 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 Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations:	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (Called Leaves) reduction in Till ressed Plants (In in Remarks)	iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one is require) 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 Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations: urface Water Present? Yes	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C reduction in Till ressed Plants (in in Remarks)	iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: cimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations: urface Water Present? Yes ater Table Present? Yes	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair	d Leaves (B9) (d., 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C reduction in Till ressed Plants (I n in Remarks) pth (inches): pth (inches):	iving Ro C4) led Soils	pots (C3) s (C6) RR A)	Secondary In Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Nee Raised A Frost-He	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	
Type: Depth (inches): emarks: PROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is require) 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 Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations: Irface Water Present? Yes	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C reduction in Till ressed Plants (in in Remarks)	iving Ro C4) led Soils	pots (C3) s (C6) RR A)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	
Type: Depth (inches): Permarks: Proposition (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 Imagery (B7) Sparsely Vegetated Concave Surface (B8) alter Table Present? Sediment Present? Sediment Deposits (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Sed Observations: Surface Water Present? Sediment Present Pr	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair No De No De No De	d Leaves (B9) (d., 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (C eduction in Till ressed Plants (in in Remarks) pth (inches): pth (inches):	iving Ro C4) led Soils D1) (LF	pots (C3) s (C6) RR A)	Secondary II Water-S 4A, a Drainage Dry-Sea Saturatio Geomon Shallow FAC-Nee Raised A Frost-He	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	
Type: Depth (inches): Permarks: Proposition (Page 1) Depth (inches): Depth (page 2)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair No De No De No De	d Leaves (B9) (d., 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (C eduction in Till ressed Plants (in in Remarks) pth (inches): pth (inches):	iving Ro C4) led Soils D1) (LF	pots (C3) s (C6) RR A)	Secondary II Water-S 4A, a Drainage Dry-Sea Saturatio Geomon Shallow FAC-Nee Raised A Frost-He	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	

U.S. Army Corps of Engineers OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-3; the proponent agency is CECW-COR Project/Site: STORT EXtension City/County: florence/lone Sampling Date: 10/09 State: O.Z. Sampling Point: Applicant/Owner: City of Florence Investigator(s): Rahe Section, Township, Range: TIBS REIZW S 27 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 4 Subregion (LRR): <u>LRRA</u> Lat: <u>43.976547</u> Long: <u>-124.114994</u> Datum: <u>NAD83</u> Soil Map Unit Name: 131 C Ridley - Keating Silt loams NWI classification: N/A 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? Yes _____ No ___ 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. Is the Sampled Area Hydrophytic Vegetation Present? Yes Yes X No within a Wetland? Hydric Soil Present? Wetland Hydrology Present? Remarks: water present in bottom of deamage VEGETATION – Use scientific names of plants. Indicator Absolute Dominant Dominance Test worksheet: Tree Stratum (Plot size: 10m²) Status % Cover Species? Number of Dominant Species That FAC Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That 96 =Total Cover Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 10 m²) 1. Rubus spetabilus 30 4 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ____ x 1 = _ x 2 = FACW species 45 x3= 345 FAC species 30 =Total Cover FACU species 30 x4=/3/0 (Plot size: /m²) Herb Stratum x 5 = Column Totals: 125 (A) \$65 (B) Prevalence Index = B/A = 3:21 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1

Problematic Hydrophytic Vegetation¹ (Explain)

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

Hydrophytic Vegetation Present?

Remarks:

% Bare Ground in Herb Stratum

Woody Vine Stratum (Plot size:

Profile Description: (Describe to the depth	needed to document the indicator	or confirm the	absence of indic	ators.)
Depth Matrix	Redox Features	2,027		2000
(inches) Color (moist) %		oc ² Tex	ture	Remarks
01 104231,100		Dro	anc	
1-8 INVESU 95	540 V, 50 M	San		
8-20 10 40 1012 90	5/1057 10 0 1		1	
	<u> </u>	San	<u> </u>	
Type: C=Concentration, D=Depletion, RM=R	Reduced Matrix, CS=Covered or Coate	ed Sand Grains.	² Location: P	L=Pore Lining, M=Matrix.
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G)	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (exc Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	cept MLRA 1)	Iron-Mangar Red Parent I Very Shallov Other (Expla Indicators of hydroxymallor)	A10) (LRR A, E) tese Masses (F12) (LRR D) Material (F21) v Dark Surface (F22) tin in Remarks) drophytic vegetation and rology must be present, bed or problematic.
estrictive Layer (if observed):				
Type:	_			
Depth (inches):		Hydric Sc	il Present?	Yes Yo_
YDROLOGY				
Vetland Hydrology Indicators:	di abaak all that analy)		Canadan India	store (2 or more required)
rimany Indicators (minimum of one is require	u, check all that apply)	5.03		ators (2 or more required)
	Surface Water (A1) Water-Stained Leaves (B9) (exception of the Water Table (A2)			
Surface Water (A1)		cept		ed Leaves (B9) (MLRA 1, 2
Surface Water (A1) High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	cept	4A, and 4	IB)
Surface Water (A1) High Water Table (A2) Saturation (A3)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	cept	4A, and 4	tterns (B10)
Surface Water (A1) High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	cept	4A, and 4 Drainage Pa Dry-Season	tterns (B10) Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Drainage Pa Dry-Season Saturation Vi	tterns (B10) Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	ng Roots (C3)	Drainage Pa Dry-Season Saturation Vi	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin	ng Roots (C3)	Drainage Pa Dry-Season Saturation Vi Geomorphic	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4)	ng Roots (C3) Soils (C6)	Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks)	ng Roots (C3) Soils (C6)	Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5)

Field	Observations:	
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(includes capillary fringe)

Surface Water Present?	Ye
Water Table Present?	Ye
Saturation Present?	Ye

Depth (inches): 16
Depth (inches): 10

Wetland Hydrology Present?

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

Remarks:

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region
See ERDC/FL TR-10-3: the proposent agency is CECW-COR

See ENDO/EL TN-10-3, the proponent agency is CECW-CON	/ / / / / / / / / / / / / / / / / / /
Project/Site: STreeT EY tension City/County: Flore	nee/Lane Sampling Date: 10/09
Applicant/Owner: City of Florence	State: OR Sampling Point: 2A
Investigator(s): Section, Township, Rain	nge: T185 R12W S 27
Landform (hillside, terrace, etc.): Terrace Local relief (concave, conv.	ex, none): CONVEY Slope (%): 2
Subregion (LRR): LRRA Lat: 43.976491 Long: -	
Soil Map Unit Name: 131C Ridley - Keating Silt loans	NWI classification: N/A
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 C	Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, ex	
SUMMARY OF FINDINGS – Attach site map showing sampling point loc	
Hydrophytic Vegetation Present? Yes No Within a Wetland? Wetland Hydrology Present? Yes No	The state of the s
Remarks:	
1100/000	
Upslope of westland	
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size: 10 m 2) Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Pseudotsuga menties, so y PACA	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species S Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 5mZ) 1. Goult Hoosia Shallon 30 U PACU	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Gaultheria Shallon DD Y FACY 2. Vaccinium oval ifolian 20 4 1190	Prevalence Index worksheet:
3.	Total % Cover of: Multiply by:
4.	OBL species x 1 =
5.	FACW species x 2 =
SO=Total Cover	FAC species x3=
Herb Stratum (Plot size:)	UPL species 20 x4 = 440
1,	UPL species 20 x 5 = 100 (B)
3.	Prevalence Index = B/A = 4
4.	
5.	Hydrophytic Vegetation Indicators:
6,	1 - Rapid Test for Hydrophytic Vegetation
7	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
9.	4 - Morphological Adaptations (Provide supporting
10.	data in Remarks or on a separate sheet)
11.	5 - Wetland Non-Vascular Plants ¹
=Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	be present, unless disturbed of problematic.
1	Hydrophytic

Profile Description: (Describe to the de Depth Matrix		Features					
inches) Color (moist) %	Color (moist)	% Тур	e ¹ Loc ²	Text	ure	Remarks	
0-6 7.5 4846 100				-	Section 1	7 (5-11-411-14	
				0.	ganic		
6-20 7.5 45/2 100				Sa	maly_		
				_			
				_			
Type: C=Concentration, D=Depletion, RN				and Grains.		PL=Pore Lining, M	
Hydric Soil Indicators: (Applicable to all						Problematic Hydr	ic Soils':
Histosol (A1)		ed Matrix (S4	1)			k (A10) (LRR A, E)	
Histic Epipedon (A2)	Sandy Red	ox (S5)			Iron-Mang	ganese Masses (F12	(LRR D)
Black Histic (A3)	Stripped Ma	atrix (S6)			Red Parer	nt Material (F21)	
Hydrogen Sulfide (A4)	Loamy Muc	ky Mineral (F	1) (except	MLRA 1)	Very Shal	low Dark Surface (F	22)
1 cm Muck (A9) (LRR D, G)	Loamy Gley	ed Matrix (F:	2)		Other (Ex	plain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted M	atrix (F3)					
Thick Dark Surface (A12)	Redox Dark	Surface (F6)		3Indicators of h	hydrophytic vegetation	on and
Sandy Mucky Mineral (S1)	Depleted Da	ark Surface (F7)			ydrology must be pre	
2.5 cm Mucky Peat or Peat (S2) (LRR		ressions (F8)				turbed or problemat	
Restrictive Layer (if observed):		× × × × × × × × × × × × × × × × × × ×					
Type:							
				Hydric So	il Procent?	Vac	No
Depth (inches):				Hydric So	il Present?	Yes	No_
Depth (inches):				Hydric So	il Present?	Yes	No_
Depth (inches): Remarks: YDROLOGY				Hydric So	il Present?	Yes	No_
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators:	ired; check all that an	anly)					
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requ			20) (20222		Secondary Ind	licators (2 or more re	equired)
Depth (inches): Primary Indicators (minimum of one is requestional Surface Water (A1)	Water-Stain	ed Leaves (E			Secondary Ind	licators (2 or more reined Leaves (B9) (N	equired)
Depth (inches): Pemarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	Water-Stain	ed Leaves (E , 2, 4A, and			Secondary Ind Water-Sta 4A, and	licators (2 or more reined Leaves (B9) (Nd 4B)	equired)
Primary Indicators (minimum of one is requesting Water (A1) High Water Table (A2) Saturation (A3)	Water-Stain MLRA 1, Salt Crust (E	ed Leaves (E , 2, 4A, and 4 311)	IB)		Secondary Ind Water-Sta 4A, and	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10)	equired)
Depth (inches): Primary Indicators (minimum of one is requesting Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve	ed Leaves (E , 2 , 4A , and 4 311) ertebrates (B	(B)		Secondary Ind Water-Sta 4A, and Drainage	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10) on Water Table (C2)	equired)
Depth (inches): Primary Indicators (minimum of one is requestrated Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve	ed Leaves (E , 2 , 4A , and 4 B11) ertebrates (B' ulfide Odor (I	(B) (3) (31)		Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Im	equired)
Depth (inches): Primary Indicators (minimum of one is requested Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (I	(B) (3) (C1) on Living Ro		Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph	licators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imic Position (D2)	equired)
Depth (inches): Primary Indicators (minimum of one is requested water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (hizospheres of Reduced Iro	(B) (3) (C1) (n Living Ro (C4)	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A	licators (2 or more reined Leaves (B9) (Nd 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imic Position (D2) quitard (D3)	equired)
Primary Indicators (minimum of one is requested Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (i bizospheres of FReduced Iro Reduction in	(B) (C1) In Living Ro In (C4) Tilled Soils	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Print Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requestive 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 Imagery (B	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (i bizospheres of FReduced Iro Reduction in	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
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Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requised by Saturation (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 Imagery (B Sparsely Vegetated Concave Surface (B1)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requestive 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 Imagery (B	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(C1) on Living Ro n (C4) Tilled Soils ts (D1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
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Popth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required 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 Imagery (B) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I nizospheres of Reduced Iro Reduction in Stressed Plan ain in Remark	(B) (3) (C1) In Living Ron (C4) Tilled Soils ts (D1) (LF	pots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neutr Raised An Frost-Hear	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required 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 Imagery (B Sparsely Vegetated Concave Surface (Sield Observations: Surface Water Present? Ves	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E. 2, 4A, and 4 311) ertebrates (Brulfide Odor (Inizospheres of Reduced Iron Reduction in Stressed Plantain in Remark	(B) (3) (C1) In Living Ron (C4) Tilled Soils ts (D1) (LF	pots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neutr Raised An Frost-Hear	dicators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Implic Position (D2) quitard (D3) ral Test (D5) of Mounds (D6) (LRF) ve Hummocks (D7)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required 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 Imagery (B) Sparsely Vegetated Concave Surface (Concave Surface (Conc	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E 2, 4A, and 4 311) ertebrates (B ulfide Odor (i bizospheres of Reduced Iro Reduction in Stressed Plan ain in Remark Depth (inches Depth (inches	(B) (3) (C1) In Living Ron (C4) Tilled Soils (ts (D1) (LF) (s) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	oots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An Frost-Head	dicators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Implic Position (D2) quitard (D3) ral Test (D5) of Mounds (D6) (LRF) ve Hummocks (D7)	equired) ILRA 1, 2 agery (C9)
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Depth (inches): temarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is requing a 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 Imagery (B) Sparsely Vegetated Concave Surface (Concave Sur	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E 2, 4A, and 4 311) ertebrates (B ulfide Odor (i bizospheres of Reduced Iro Reduction in Stressed Plan ain in Remark Depth (inches Depth (inches	(B) (3) (C1) In Living Ron (C4) Tilled Soils (ts (D1) (LF) (s) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	oots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An Frost-Head	dicators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Implic Position (D2) quitard (D3) ral Test (D5) of Mounds (D6) (LRF) ve Hummocks (D7)	equired) ILRA 1, 2 agery (C9)

WETLAND DETERMINATION DATA SHEET - Western Mountains, Valleys, and Coast Region Requirement Control Symbol EXEMPT: See ERDC/EL TR-10-3; the proponent agency is CECW-COR (Authority: AR 335-15, paragraph 5-2a) Project/Site: Street Extension City/County: Florence Sampling Date: City of Florence State: Oe. Applicant/Owner: Sampling Point: Section, Township, Range: T 185 Investigator(s): R12W 527 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concrete Slope (%): Subregion (LRR): LRPA Lat: 43.976481 Long: - 124, 114891 Datum: NAD82 NWI classification: N/A Soil Map Unit Name: 131C Richar - Keating Silt loan. Yes ______ No____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🗶 No 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 Is the Sampled Area Hydric Soil Present? Yes No within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 10 m 2) Dominance Test worksheet: % Cover Species? Status PAC Number of Dominant Species That 2. Pseudotsugamentiesil Are OBL. FACW, or FAC: Total Number of Dominant Species Across All Strata: 90 =Total Cover Percent of Dominant Species That Sapling/Shrub Stratum (Plot size:) Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ZO x1= Zo x 2 = FACW species FAC species =Total Cover 90 x3= (Plot size: Im -) Herb Stratum FACU species 30 x4= /20 UPL species Column Totals: 140 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation (Explain) Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic =Total Cover Vegetation % Bare Ground in Herb Stratum Present? Remarks:

U.S. Army Corps of Engineers

OMB Control #: 0710-0024, Exp: 06/30/2024

Depth Matrix	Redo	x Featur	res			
inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2 1048311 100					organ	n/c
1-7 104231,95	54R516	5	0	M	Sand	
7-20 10408/390	5425/4	10	-	M	Sara	4.
7-10 10 12 10	3 16316		_			9
		Ξ	Ξ	\equiv		
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, (CS=Cove	ered or C	oated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all L	RRs, unless other	erwise n	oted.)		Inc	licators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gle	eyed Mat	trix (S4)			2 cm Muck (A10) (LRR A, E)
Histic Epipedon (A2)	Sandy Red	dox (S5)				Iron-Manganese Masses (F12) (LRR D)
Black Histic (A3)	Stripped N	Matrix (S	6)			Red Parent Material (F21)
Hydrogen Sulfide (A4)	Loamy Mu	icky Min	eral (F1)	(except	MLRA 1)	Very Shallow Dark Surface (F22)
1 cm Muck (A9) (LRR D, G)	Loamy Gle	eyed Ma	trix (F2)			Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted I	Matrix (F	3)			
Thick Dark Surface (A12)	Redox Da	rk Surfac	ce (F6)		3In	dicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted I	Dark Sur	face (F7)	0		wetland hydrology must be present,
2.5 cm Mucky Peat or Peat (S2) (LRR G	Redox De	pression	s (F8)			unless disturbed or problematic.
Sandulativa I areas (16 also assessible						
Type:						
Restrictive Layer (if observed): Type: Depth (inches): Remarks:					Hydric Soil P	resent? Yes No
Type:					Hydric Soil P	resent? Yes 🚣 No_
Type: Depth (inches):					Hydric Soil P	resent? Yes <u>No</u> No_
Type: Depth (inches): Remarks: YDROLOGY	ed; check all that a	apply)				resent? Yes No_
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1)	ed; check all that a		aves (B9)	(except	Se	
Type: Depth (inches): Demarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1)	Water-Sta	ined Lea	oves (B9)	3	Se	condary Indicators (2 or more required)
Type: Depth (inches): Demarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1)	Water-Sta	ined Lea 1, 2, 4A		3	Se	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Type: Depth (inches): YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Sta MLRA Salt Crust Aquatic In	ined Lea 1, 2, 4A (B11) vertebra	and 4B)		Se	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (inches): YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Sta MLRA Salt Crust Aquatic In	ined Lea 1, 2, 4A (B11) vertebra Sulfide (, and 4B) tes (B13) Odor (C1	7	Se	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Type: Depth (inches): Pemarks: Pydrology Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph	tes (B13) Odor (C1 neres on I	iving Ro	Se	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Type: Depth (inches): emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduce	tes (B13) Odor (C1 neres on I	iving Ro	oots (C3)	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required 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)	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro	ined Lea 1, 2, 4A, (B11) vertebrate Sulfide (Rhizosphof Reductor n Reductor	tes (B13) Odor (C1 heres on I ced Iron () Iving Ro	Se ————————————————————————————————————	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required 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-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc Stresse	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti) Iving Ro	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Pemarks: Pydrology Petland Hydrology Indicators: rimary Indicators (minimum of one is required by the second of the s	Water-Sta MLRA Salt Crust Aquatic Interpretation Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc Stresse	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti) Iving Ro	Se ————————————————————————————————————	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Depth (inches): Pemarks: Pyprology Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Sta MLRA Salt Crust Aquatic Interpretation Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc Stresse	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti) Iving Ro	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B) Religious Concave Surface (B)	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp.	ined Lea 1, 2, 4A, (B11) vertebrai Sulfide (Rhizosph of Reduct on Reduct Stresse plain in F	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti d Plants Remarks)) Iving Ro	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: POROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required by 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 Imagery (B7 Sparsely Vegetated Concave Surface (B1) Indicated Water Present? Ves	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp.	ined Lea 1, 2, 4A (B11) vertebral Sulfide (Rhizosph of Reduct on Reduct Stresse blain in F	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti d Plants Remarks)	Living Ro C4) Illed Soils (D1) (LR	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: Primary Indicators (minimum of one is require 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 Imagery (B7 Sparsely Vegetated Concave Surface (B6) Gield Observations: Surface Water Present? Ves Vater Table Present? Ves	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp.	ined Lea 1, 2, 4A (B11) vertebral Sulfide (Rhizosph of Reduct on Reduct Stresse plain in F	tes (B13) Odor (C1 neres on I ced Iron (ction in Ti d Plants Remarks)	Living Ro C4) Illed Soils (D1) (LR	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type: Depth (inches): Remarks: PYDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) Included Concave Surface (B2) Included Concave Surface (B3) Included Concave Surface (B3) Included Concave Surface (B3) Included Concave Surface (B4) Include	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp No	ined Lea 1, 2, 4A (B11) vertebral Sulfide (Rhizosph of Reduct on Reduct Stresse plain in F	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti d Plants Remarks)	Living Ro C4) Illed Soils (D1) (LR	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type: Depth (inches): Remarks: Primary Indicators (minimum of one is required 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 Imagery (B7 Sparsely Vegetated Concave Surface (B1) Remarks: Primary Indicators: Surface Water Present? Ves Vater Table Present? Ves Vater Table Present? Ves Vater Table Present? Ves	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp No No No	ined Lea 1, 2, 4A, (B11) vertebrai Sulfide (Rhizosph of Reduc n Reduc Stresse plain in F	tes (B13) Odor (C1 neres on I ced Iron (ction in Ti ed Plants Remarks) inches): inches):	Living Rc C4) Illed Soils (D1) (LR	oots (C3)	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type: Depth (inches): Remarks: PAROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) Indicated Water Present? Vater Table Present? Vater Table Present? Ves Vater Table Present?	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp No No No	ined Lea 1, 2, 4A, (B11) vertebrai Sulfide (Rhizosph of Reduc n Reduc Stresse plain in F	tes (B13) Odor (C1 neres on I ced Iron (ction in Ti ed Plants Remarks) inches): inches):	Living Rc C4) Illed Soils (D1) (LR	oots (C3)	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

Coc ENDO/EE TIX-10-0, the proportent agency is OEOVI-OOK	/-
Project/Site: Street Extension City/County: Flore	nee/Lone Sampling Date: 10/09
Applicant/Owner: City of Florence	State: 6(, Sampling Point: 3A
	inge: TISS 1212W 527
Landform (hillside, terrace, etc.): Terrace Local relief (concave, conv	/ex, none): Convex Slope (%):
Subregion (LRR): <u>LRRA</u> Lat: <u>43.976372</u> Long: -	-124. 114763 Datum: NAD83
Soil Map Unit Name: 131C Rdley - Kesten Silt Laur	NWI classification: NA
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 C	Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, ex	and the state of t
SUMMARY OF FINDINGS – Attach site map showing sampling point lo	
Hydrophytic Vegetation Present? Yes No Is the Sampled A within a Wetland Wetland Hydrology Present? Yes No	N N
Remarks:	
upolope of wetland	drainage
VEGETATION – Use scientific names of plants.	0
Tree Stratum (Plot size: 10 m) Absolute Dominant Indicator % Cover Species? Status	Danisana Tantuunkahanti
1. Pseudo tsuga mension 80 4 PACU	Dominance Test worksheet:
2	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.	Total Number of Dominant Species Z Across All Strata: (B)
=Total Cover	Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size: 5 m?)	Are OBL, FACW, or FAC: (A/B
1. Vaccinum ovaloblium 30 4 Left	
2	Prevalence Index worksheet: Total % Cover of: Multiply by:
4.	OBL species x1=
5.	FACW species x 2 =
32 =Total Cover	FAC species x 3 =
Herb Stratum (Plot size:)	FACU species 80 x4= 320
1	UPL species 30 x5= 150
2.	Column i otals: 110 (A) 470 (B)
3	Prevalence Index = B/A = 4,2
5.	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
8.	3 - Prevalence Index is ≤3.01
9.	4 - Morphological Adaptations (Provide supporting
10	data in Remarks or on a separate sheet)
11	5 - Wetland Non-Vascular Plants ¹
=Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must
2	be present, unless disturbed or problematic.
=Total Cover	Hydrophytic
- I Oldi OUYUI	Vegetation
% Bare Ground in Herb Stratum - 100	Present? Yes No

epth Matrix uches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
6 6 76 11 1		Organic	
2 - 251.50 100		Sandy	
-20 754RS/2 100		- saray	
	Reduced Matrix, CS=Covered or Coated S		tion: PL=Pore Lining, M=Matrix.
dric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)		s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)		Muck (A10) (LRR A, E)
Histic Epipedon (A2)	Sandy Redox (S5)		Manganese Masses (F12) (LRR D)
Black Histic (A3)	Stripped Matrix (S6)		Parent Material (F21)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (excep		Shallow Dark Surface (F22)
1 cm Muck (A9) (LRR D, G)	Loamy Gleyed Matrix (F2)	Other	(Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		
Thick Dark Surface (A12)	Redox Dark Surface (F6)		s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		nd hydrology must be present,
2.5 cm Mucky Peat or Peat (S2) (LRR 0	Redox Depressions (F8)	unles	s disturbed or problematic.
strictive Layer (if observed):			
strictive Layer (if observed): Type:			
Type:		Hydric Soil Present	? Yes No
Type: Depth (inches): emarks:		Hydric Soil Present	? Yes No
Depth (inches): emarks: 'DROLOGY etland Hydrology Indicators:			
Type: Depth (inches): emarks:		Secondar	y Indicators (2 or more required)
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators:	red; check all that apply) Water-Stained Leaves (B9) (exce	Secondar ot Wate	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required)		Secondar otWate	y Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2
Type: Depth (inches): Pmarks: DROLOGY Petland Hydrology Indicators: Imary Indicators (minimum of one is required) Surface Water (A1)	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Secondar otWate 4/Drain	y Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required) Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondar Wate Drain Dry-S	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required by the state of the stat	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondar Wate 4/ Dry-5 Satur	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I	Secondar Wate 4/ Drain Dry-5 Satur Roots (C3) Geor	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (CS norphic Position (D2)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4)	Secondal Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (CS morphic Position (D2) ow Aquitard (D3)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required) 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)	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living In Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Science	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC-	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) ow Aquitard (D3) Neutral Test (D5)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required) 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-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Stunted or Stressed Plants (D1) (I	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY Internal Hydrology Indicators: mary Indicators (minimum of one is required 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 Imagery (Bit inches)	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Invertebrate (C4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scalar (C4) Stunted or Stressed Plants (D1) (Invertebrates)	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 norphic Position (D2) ow Aquitard (D3) Neutral Test (D5)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required 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-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Invertebrate (C4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scalar (C4) Stunted or Stressed Plants (D1) (Invertebrates)	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required 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 Imagery (Billing Sparsely Vegetated Concave Surface (Included Concave Surface (Inc	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Invertebrate (C4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Social Stunted or Stressed Plants (D1) (Invertebrates) Other (Explain in Remarks)	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required by the second of the second	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (I Other (Explain in Remarks) No Depth (inches):	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) lage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 norphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required by the second of the second	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (I Other (Explain in Remarks) No Depth (inches): Depth (inches):	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise Frost	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) r-Heave Hummocks (D7)
Type: Depth (inches): marks: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required and 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 Imagery (B1) Sparsely Vegetated Concave Surface (Inches Water Present? Inface	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (I Other (Explain in Remarks) No Depth (inches):	Secondar Wate 4/ Drain Dry-S Satur Roots (C3) Geor Shall ills (C6) FAC- RR A) Raise	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) r-Heave Hummocks (D7)
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required in 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 Imagery (B) Sparsely Vegetated Concave Surface (Interest Water Present? Interest Water Present Present? Interest	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Invertebrate (C4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scale (C4) Stunted or Stressed Plants (D1) (Invertebrate (D1) (Inverte	Secondal Wate A Drain Dry-S Satur Roots (C3) Geor Shall sils (C6) FAC- LRR A) Raise Frost Wetland Hydrolog	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) r-Heave Hummocks (D7)
Type: Depth (inches): marks: DROLOGY Petland Hydrology Indicators: imary Indicators (minimum of one is required 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 Imagery (B) Sparsely Vegetated Concave Surface (Inches Water Present? Peter Table Present	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (I Other (Explain in Remarks) No Depth (inches): Depth (inches):	Secondal Wate A Drain Dry-S Satur Roots (C3) Geor Shall sils (C6) FAC- LRR A) Raise Frost Wetland Hydrolog	ry Indicators (2 or more required) r-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) rage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) ow Aquitard (D3) Neutral Test (D5) ed Ant Mounds (D6) (LRR A) r-Heave Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

		0	1.	
Project/Site: Street Extension		City/County: - or		Sampling Date:
Applicant/Owner: City of Floren	u	3-3-7-6	State: 82	Sampling Point: 38
investigator(s): Rahe	S	ection, Township, Ra	ange: TIBS R	(12W 327
Landform (hillside, terrace, etc.): Terca				16 Slope (%): 5
Subregion (LRR): LRRA Lat:	43.976387	Long:	- 124.114807	Datum: NAD
Soil Map Unit Name: 131C Richey - 1	Keating Silt	logn	NWI class	ification: NA
Are climatic / hydrologic conditions on the site typica	I for this time of year	? Yes X	No (If no, ex	plain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" present	? Yes X No
Are Vegetation, Soil, or Hydrology			xplain any answers in Re	
SUMMARY OF FINDINGS – Attach site r				
Hydrophytic Vegetation Present? Yes Yes Yes Yes Wetland Hydrology Present? Yes	No No No	Is the Sampled A		No
Remarks:				
VEGETATION – Use scientific names of				
Tree Stratum (Plot size: 10 m Z)		minant Indicator ecies? Status	Dominance Test wo	rksheet.
1. Alous rubra	90	V PAC	Number of Dominant	
2.			Are OBL, FACW, or F	
3 4			Total Number of Dom Across All Strata:	ninant Species 3 (B)
3.5.7		l Cover	Percent of Dominant	Species That
Sapling/Shrub Stratum (Plot size: 5 M 2			Are OBL, FACW, or F	AC: 33 (A/
1. Rubuspectabilis	30	JES MAC	CT TOTAL STORES	ALL THE STATE OF T
2.			Prevalence Index w	
3.			Total % Cover o	f: Multiply by:
5.			OBL species FACW species	x 2 =
-	=Tota	Cover	FAC species / Z	
Herb Stratum (Plot size: /m 2)			FACU species	
1. Polystichm mynifax	n 20 1	HEC PACU		x 5 =
2. 7 3.			Column Totals: 19	
5			Hydrophytic Vegeta	tion Indicators:
6.				Hydrophytic Vegetation
7.			2 - Dominance Te	est is >50%
8.			3 - Prevalence In	dex is ≤3.0 ¹
9				Adaptations (Provide supporting or on a separate sheet)
11.			5 - Wetland Non-	Vascular Plants ¹
	ZO =Tota	l Cover		ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:1,)			oil and wetland hydrology must
2.			Process of the second	The state of the s
	=Tota	l Cover	Hydrophytic Vegetation	h
% Bare Ground in Herb Stratum			Present? Yes	No

Profile Description: (Describe to the dep Depth Matrix		x Featur					V 11 - 1/4	
inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Text	ture	Re	marks
0-1 1042311 100	1				OVA	ena		
1-6 10423/1 95	54000	-	1	M		usand		
6-20 10486 90	SURS	10	-	101	muca	y sung		
0 10 10100 10	59R3/6	10	_	M		nay -		
		_	_	_		<u> </u>		
		_						
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, 0	CS=Cove	red or C	oated Sa	and Grains.	² Location	PL=Pore Lin	ing, M=Matrix
lydric Soil Indicators: (Applicable to all I							r Problematic	
Histosol (A1)	Sandy Gle	eyed Mati	rix (S4)				k (A10) (LRR	
Histic Epipedon (A2)	X Sandy Re						ganese Masse	
Black Histic (A3)	Stripped N	Matrix (Se	6)		- 20		nt Material (F2	
Hydrogen Sulfide (A4)	Loamy Mu			except	MLRA 1)	_	low Dark Surfa	
1 cm Muck (A9) (LRR D, G)	Loamy Gle						plain in Rema	
Depleted Below Dark Surface (A11)	Depleted I							
Thick Dark Surface (A12)	Redox Da					3Indicators of	hydrophytic ve	getation and
Sandy Mucky Mineral (S1)	Depleted I	Dark Surf	face (F7)			wetland h	ydrology must	be present,
2.5 cm Mucky Peat or Peat (S2) (LRR 0	Redox De	pressions	s (F8)			unless dis	turbed or prob	lematic.
Restrictive Layer (if observed):								
Type:								
Depth (inches):					Hydric So	oil Present?	Yes	T No
Remarks:					Hydric So	oil Present?	Yes	No
YDROLOGY					Hydric So	oil Present?	Yes	No
YDROLOGY Vetland Hydrology Indicators:	red: check all that a	apply)			Hydric So			
YDROLOGY Vetland Hydrology Indicators: vrimary Indicators (minimum of one is requir		79 75	ves (B9)	(except		Secondary Inc	licators (2 or n	nore required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1)	Water-Stai	ined Leav		(except		Secondary Inc. Water-Sta	licators (2 or n	nore required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1)	Water-Stai	ined Leav 1, 2, 4A,		(except		Secondary Inc Water-Sta 4A, an	licators (2 or n	nore required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	Water-State MLRA Salt Crust	ined Leav 1, 2, 4A, (B11)	and 4B)	(except		Secondary Inc Water-Sta 4A, an Drainage	licators (2 or n ined Leaves (i d 4B) Patterns (B10)	nore required)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stai	ined Leav 1, 2, 4A, (B11) vertebrate	and 4B) es (B13)			Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc	licators (2 or n ined Leaves (i d 4B)	nore required) B9) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: Virimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stai MLRA Salt Crust Aquatic Inv	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide C	and 4B) es (B13) odor (C1)			Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table	nore required) B9) (MLRA 1, e (C2) rial Imagery (
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen	ined Leavent 1, 2, 4A, (B11) vertebrate Sulfide Chizosphe	es (B13) odor (C1) eres on L	iving Ro		Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae	nore required) B9) (MLRA 1, e (C2) rial Imagery (
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide Control Rhizospher of Reduce	es (B13) odor (C1) eres on L	iving Ro	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D	nore required) B9) (MLRA 1, e (C2) rial Imagery (
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence	ined Leave 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct	es (B13) dor (C1) eres on L ed Iron (Cion in Til	iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3)	nore required) B9) (MLRA 1, e (C2) rial Imagery (1
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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)	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iro Stunted or	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) odor (C1) eres on L ed Iron (Cion in Till d Plants (iving Ro C4) led Soils	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5)	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) odor (C1) eres on L ed Iron (Cion in Till d Plants (iving Ro C4) led Soils	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)
YDROLOGY Vetland Hydrology Indicators: Trimary Indicators (minimum of one is required 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 Imagery (B7)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) odor (C1) eres on L ed Iron (Cion in Till d Plants (iving Ro C4) led Soils	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7 Sparsely Vegetated Concave Surface (B	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iro Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (Cion in Till d Plants (emarks)	iving Ro C4) led Soils	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations:	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (Gion in Till d Plants (emarks)	iving Ro C4) led Soils	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Yes	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Stressed blain in Re	es (B13) bdor (C1) eres on L ed Iron (fillion in Till d Plants (emarks) enches):nches):nches):	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6 ve Hummocks	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)) (LRR A) (D7)
Verland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Ves vater Table Present? vaturation Present?	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leavined Leavined Leavined Leavined Leavine Sulfide Control Reduct Stressed Plain in Reduct Depth (in	es (B13) dor (C1) eres on L ed Iron (i cion in Til d Plants (emarks) enches): enches): enches)	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6 ve Hummocks	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)) (LRR A) (D7)
Vertland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Ves Vater Table Present? Ves aturation Present? Yes	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leavined Leavined Leavined Leavined Leavine Sulfide Control Reduct Stressed Plain in Reduct Depth (in	es (B13) dor (C1) eres on L ed Iron (i cion in Til d Plants (emarks) enches): enches): enches)	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6 ve Hummocks	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)) (LRR A) (D7)
Verland Hydrology Indicators: Irimary Indicators (minimum of one is required 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 Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Ves vater Table Present? vaturation Present?	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leavined Leavined Leavined Leavined Leavine Sulfide Control Reduct Stressed Plain in Reduct Depth (in	es (B13) dor (C1) eres on L ed Iron (i cion in Til d Plants (emarks) enches): enches): enches)	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	licators (2 or n ined Leaves (i d 4B) Patterns (B10) on Water Table Visible on Ae nic Position (D quitard (D3) ral Test (D5) it Mounds (D6 ve Hummocks	nore required) B9) (MLRA 1, e (C2) rial Imagery (C2)) (LRR A) (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR

Project/Site: Street Extension	City/County: Flac	ence/lone Sampling Date: 10/09
Applicant/Owner: City of Florence		State: OR. Sampling Point: 4A
Investigator(s): Rabe	Section, Township, Ra	ange: TIBS R12W S27
Landform (hillside, terrace, etc.): Tellace	Local relief (concave, con-	vex, none): Convex Slope (%):2
Subregion (LRR):	Long: _	124.115022 Datum: NAD83
Soil Map Unit Name: 131C Ridley - Kesting S.		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time		No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly	disturbed? Are "Normal	Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, ex	oplain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ng sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No No Wetland Hydrology Present? Yes No	Is the Sampled A	10
Remarks:		
1/10/10/00	of wetla	a- 0l .
VEGETATION – Use scientific names of plants.	of weren	nec
Absolute	Dominant Indicator	
Tree Stratum (Plot size: 10 m Z) % Cover		Dominance Test worksheet:
1. Pscudo tsuga mensierii 80	9 10704	Number of Dominant Species That Are OBL, FACW, or FAC:
3. 4.		Total Number of Dominant Species Across All Strata: (B)
502 80	=Total Cover	Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size: $5n^2$) 1. Gray Itheria Shallan 30	YES FACU	Are OBL, FACW, or FAC: (A/B)
2. Vaccinium Ovalifolium 10	yes up	Prevalence Index worksheet:
3.		Total % Cover of: Multiply by:
4		OBL species x 1 =
5	-T-t-I C	FACW species x 2 =
Herb Stratum (Plot size:	=Total Cover	FAC species // D x 4 = 440
1.		UPL species 10 x5= 50
2.		Column Totals: 120 (A) 490 (B)
3		Prevalence Index = B/A = 4, 1
5.		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.01
9.		4 - Morphological Adaptations (Provide supporting
10		data in Remarks or on a separate sheet)
11	=Total Cover	5 - Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:	100100101	¹Indicators of hydric soil and wetland hydrology must
A		be present, unless disturbed or problematic.
2.		Hydrophytic
% Bare Ground in Herb Stratum	=Total Cover	Vegetation Present? Yes No
Remarks:		

	Color (moist) % Type¹ Loc	Texture Organic Sandy	Remarks
Type: C=Concentration, D=Depletion, RM=R Iydric Soil Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G)	RRs, unless otherwise noted.) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (excell Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7)	Indicators	ion: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ : Muck (A10) (LRR A, E) langanese Masses (F12) (LRR D) arent Material (F21) Shallow Dark Surface (F22) (Explain in Remarks) of hydrophytic vegetation and ad hydrology must be present, disturbed or problematic.
Type: Depth (inches): temarks: YDROLOGY		Hydric Soil Present	YesNo_
Vetland Hydrology Indicators: rimary Indicators (minimum of one is required	d; check all that apply)Water-Stained Leaves (B9) (exce		Indicators (2 or more required)
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 Imagery (B7) Sparsely Vegetated Concave Surface (B8)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solution (C4) Stunted or Stressed Plants (D1) (Inc.) Other (Explain in Remarks)	AA Draina Dry-Si Satura Satura Shallo FAC-N C60 FAC-N Raised	Stained Leaves (B9) (MLRA 1, 2 and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region
See ERDC/EL TR-10-3: the proponent agency is CECW-COR

dee ENDOILE TIV-10-5, the proportent agency is OLOW-CON	(riamony rate oo 10, paragraph o 24)
Project/Site: Street Extension City/County: Flor	ense / Come Sampling Date: 10/09
Applicant/Owner: City of Florence	State: O.C. Sampling Point: 48
Investigator(s): Section, Township, Ra	
	vex, none): CMCall Slope (%): 4
	-124.114995 Datum: NAD
Soil Man Unit Name: 1216 P. II II O II I	NWI classification: P/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
THE CONTROL OF THE CO	Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, ex	xplain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled A	1.6
Hydric Soil Present? Yes No within a Wetland Wetland Hydrology Present? Yes No	? Yes <u>V</u> No
Remarks:	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator	
Tree Stratum (Plot size: 10 m 2) % Cover Species? Status	Dominance Test worksheet:
1. Hlows nubra 40 4 PAC 2. Pseudotsuga menties: 5 4 PACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size:) =Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1	_00
2.	Prevalence Index worksheet:
3,	Total % Cover of: Multiply by:
4.	OBL species x 1 =
5	FACW species x 2 =
Herb Stratum (Plot size: /m Z)	FAC species 100 x3= 300
	FACU species S x 4 = ZO
1. Athyrum cycosorum 10 4 MC	UPL species x5 =
3	Column Totals: 105 (A) 370 (B) Prevalence Index = B/A = 3.7
4	Frevalence index - B/A
5.	Hydrophytic Vegetation Indicators:
6.	1 - Rapid Test for Hydrophytic Vegetation
7.	2 - Dominance Test is >50%
8.	3 - Prevalence Index is ≤3.01
9.	4 - Morphological Adaptations (Provide supporting
10	data in Remarks or on a separate sheet)
11	5 - Wetland Non-Vascular Plants ¹
/ D =Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) 1.	¹ Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
2.	be present, unless disturbed or problematic.
	Hydrophytic
2	

Depth	Matrix			x Featur	es		onfirm the abs			
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	9	Remarks	
0-2	1042311	100					orga	hic		
27	1011034	95	5 VRSTO	-	-	N			0	
- 70	104 1010	00	5 yesto	7 2	-	101		usane		
4-10	104R613	90	3 911 5/6	10	_	111	- Same	dy -		_
		\equiv		Ξ	Ξ	Ξ				
Type: C=Con	ncentration, D=Depl	etion, RM:	=Reduced Matrix, (CS=Cove	red or C	oated S	and Grains.	² Location:	PL=Pore Lining, M=Ma	atrix.
	dicators: (Applica								Problematic Hydric Sc	
Histosol (A	A1)		Sandy Gle	yed Mat	rix (S4)				(A10) (LRR A, E)	
Histic Epip	pedon (A2)		Sandy Re	dox (S5)				_	nese Masses (F12) (LF	RR D)
Black Hist	ic (A3)		7 Stripped N		5)				Material (F21)	2.72.
Hydrogen	Sulfide (A4)		Loamy Mu	cky Mine	eral (F1)	(except	MLRA 1)		w Dark Surface (F22)	
	k (A9) (LRR D, G)		Loamy Gle						ain in Remarks)	
	Below Dark Surface	(A11)	Depleted N				_	-		
Thick Dark	Surface (A12)		Redox Da	rk Surfac	e (F6)		3In	ndicators of hy	drophytic vegetation ar	nd
Sandy Mu	cky Mineral (S1)		Depleted [Dark Surf	face (F7)				drology must be presen	
2.5 cm Mu	icky Peat or Peat (S	(LRR	Redox De	pressions	s (F8)			unless distu	irbed or problematic.	
estrictive La	yer (if observed):									
Type:	yer (if observed):									
	7010100000						Hydric Soil F	Present?	Yes	No_
Type: Depth (inc Remarks:	hes):						Hydric Soil F	Present?	Yes <u>M</u>	No_
Type:	hes):						Hydric Soil F	Present?	Yes <u>M</u>	No_
Type:	hes):	ne is requi	red; check all that a	apply)					Yes No.	
Type:	hes): Y ology Indicators: tors (minimum of or	ne is requi	red; check all that a		ves (B9)	(except	Se	econdary Indic		red)
Type:	hes): Ology Indicators: tors (minimum of or	ne is requi	Water-Stai				Se	econdary Indic	cators (2 or more required Leaves (B9) (MLRA	red)
Type: Depth (inc.) Remarks: YDROLOG Vetland Hydrimary Indical Surface W High Wate Saturation	ology Indicators: tors (minimum of or later (A1) r Table (A2) (A3)	ne is requi	Water-Stai	ned Leav 1, 2, 4A,			Se	econdary Indic Water-Stain 4A, and	cators (2 or more required Leaves (B9) (MLRA	red)
Type: Depth (inc Remarks: YDROLOG Vetland Hydr rimary Indical Surface W High Wate	ology Indicators: tors (minimum of or later (A1) r Table (A2) (A3)	ne is requi	Water-Stai	ned Leav 1, 2, 4A, (B11)	and 4B)		Se	econdary Indic Water-Stain 4A, and Drainage Pa	eators (2 or more required Leaves (B9) (MLRA	red)
Type: Depth (inc.)	ology Indicators: tors (minimum of or rater (A1) or Table (A2) (A3) rks (B1) Deposits (B2)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide C	and 4B) es (B13) odor (C1)		Se	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season	eators (2 or more requireled Leaves (B9) (MLRA4B) atterns (B10)	red) A 1, 2
Type: Depth (inc. Temarks: POROLOG Vetland Hydrorimary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators: tors (minimum of or ater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R	ned Leavent 1, 2, 4A, (B11) Vertebrate Sulfide Chizosphe	es (B13) dor (C1) eres on L) Living Ro	Se	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation \	eators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2)	red) A 1, 2
Type: Depth (inc.) Temarks: YDROLOG Vetland Hydrorimary Indical Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators: tors (minimum of or fater (A1) or Table (A2) (A3) dks (B1) Deposits (B2) sits (B3) or Crust (B4)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of	ned Leavent 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduc	es (B13) odor (C1) eres on L) Living Ro	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation N Geomorphic	eators (2 or more requirement Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager	red) A 1, 2
Type: Depth (inc Remarks: YDROLOG Vetland Hydr rimary Indical Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o	ology Indicators: tors (minimum of or fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron	ned Leave 1, 2, 4A, (B11) Vertebrate Sulfide C Rhizosphe of Reduct	es (B13) dor (C1) eres on L ed Iron () Living Ro C4) lled Soils	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3)	red) A 1, 2
Type: Depth (inc Demarks: YDROLOG Vetland Hydr rimary Indical Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So	ology Indicators: tors (minimum of or fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)		Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduct Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (tion in Til) Living Ro C4) lled Soils	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	red) A 1, 2
Type: Depth (incomments: TOROLOG Tetland Hydrominary Indicate Warface Warface Warface Marks) Drift Depose Algal Mat of Iron Depose Surface Solunndation	ology Indicators: tors (minimum of or later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In	nagery (B7	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduct Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (tion in Til) Living Ro C4) lled Soils	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3)	red) A 1, 2
Type: Depth (inc. Pemarks: POROLOG Petland Hydrorimary Indical Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V	ology Indicators: tors (minimum of or fater (A1) or Table (A2) (A3) oks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In fegetated Concave	nagery (B7	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduct Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (tion in Til) Living Ro C4) lled Soils	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	red) A 1, 2
Type: Depth (inc.)	ology Indicators: tors (minimum of or fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In fegetated Concave	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C chizospho of Reduct n Reduct Stressed dain in Re	es (B13) dor (C1) eres on L ed Iron (ion in Til d Plants emarks)) Living Ro C4) lled Soils	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	red) A 1, 2
Type: Depth (inc.) Person of the control of the con	ology Indicators: tors (minimum of or fater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In fegetated Concave tions: Present? Yes	nagery (B7 Surface (E	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide C thizospho of Reduct n Reduct Stressed blain in Reduct	es (B13) dor (C1) eres on L ed Iron (ion in Til d Plants emarks)) Living Ro C4) lled Soils	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	red) A 1, 2
Type: Depth (inc.) Remarks: YDROLOG Vetland Hydro Primary Indical Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely W ield Observa	ology Indicators: tors (minimum of or later (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In legetated Concave tions: Present? Yes	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide Control Reduct n Reduct Stressed Idain in Reduct Depth (in Depth (in Depth (in Depth (in In	es (B13) bdor (C1) eres on L ed Iron (id Plants emarks) anches):) Living Ro C4) lled Soils	oots (C3) X	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2
Type: Depth (inc. Remarks: YDROLOG Vetland Hydro Irimary Indical Surface W High Water Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V ield Observa urface Water Vater Table Present I	hes): ology Indicators: tors (minimum of or ater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In regetated Concave tions: Present? Yes sent? Yes	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leav 1, 2, 4A, (B11) vertebrate Sulfide C thizospho of Reduct n Reduct Stressed blain in Reduct	es (B13) bdor (C1) eres on L ed Iron (id Plants emarks) anches):) Living Ro C4) lled Soils	oots (C3) X	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2
Type: Depth (inc. Remarks: YDROLOG Vetland Hydro Primary Indicat Surface W High Water Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V ield Observa urface Water Vater Table Praturation Pres Includes capill	hes): ology Indicators: tors (minimum of or ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In regetated Concave rtions: Present? Yes resent? Yes ary fringe)	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp No No No	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide Control Reduct on Reduct Stressed Idain in Reduct Depth (in	es (B13) dor (C1) eres on L ed Iron (id Plants emarks) enches): enches): enches):	Living Ro C4) lled Soils (D1) (LF	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2
Type: Depth (inc. Depth (inc. Demarks: YDROLOG Vetland Hydrorimary Indicat Surface W High Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely W Veld Observa urface Water Vater Table Predicted Scapill	hes): ology Indicators: tors (minimum of or ater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In regetated Concave tions: Present? Yes sent? Yes	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp No No No	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide Control Reduct on Reduct Stressed Idain in Reduct Depth (in	es (B13) dor (C1) eres on L ed Iron (id Plants emarks) enches): enches): enches):	Living Ro C4) lled Soils (D1) (LF	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2
Type: Depth (inc. Remarks: YDROLOG Vetland Hydro Primary Indicat Surface W High Water Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V ield Observa urface Water Vater Table Praturation Pres Includes capill	hes): ology Indicators: tors (minimum of or ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In regetated Concave rtions: Present? Yes resent? Yes ary fringe)	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp No No No	ned Leaven 1, 2, 4A, (B11) vertebrate Sulfide Control Reduct on Reduct Stressed Idain in Reduct Depth (in	es (B13) dor (C1) eres on L ed Iron (id Plants emarks) enches): enches): enches):	Living Ro C4) lled Soils (D1) (LF	oots (C3)	econdary Indic Water-Stain 4A, and Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required Leaves (B9) (MLRA 4B) atterns (B10) Water Table (C2) //isible on Aerial Imager c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

Sampling Date: 4/4/ ate: Or. Sampling Point: 5/4 T188 R12W S 27 Datum: NAD83 NWI classification: N/A (If no, explain in Remarks.)
TIBS RIZW SZ7
TIBS RIZW SZ7
: Conulx Slope (%): 2 50 Datum: NAD83 NWI classification: N/A
NWI classification: NADEZ
NWI classification:
(If no, explain in Remarks.)
nces" present? Yes X No
answers in Remarks.)
, transects, important features, etc.
Yes No X
edge of drainage
1-1
Study area
ance Test worksheet:
er of Dominant Species That BL, FACW, or FAC: (A)
lumber of Dominant Species Z (B)
at of Dominant Species That (A/B)
ence Index worksheet:
otal % Cover of: Multiply by:
pecies x 1 =
species x 2 =
pecies x 3 =
species x4= 320
pecies x5= _/00
Totals: 100 (A) 420 (B)
valence Index = B/A = <u>y, 7</u>
phytic Vegetation Indicators:
Rapid Test for Hydrophytic Vegetation
Dominance Test is >50%
Prevalence Index is ≤3.0 ¹
Morphological Adaptations (Provide supporting
data in Remarks or on a separate sheet)
Wetland Non-Vascular Plants ¹
oblematic Hydrophytic Vegetation ¹ (Explain)
tors of hydric soil and wetland hydrology must
ent, unless disturbed or problematic.
phytic
tion
t? Yes No
to see a see

Sampling Point: 54

Redox Feat	ures		
olor (moist) %	Type ¹	Loc ² Te	xture Remarks
		21	genie
			7.
		_	
		ated Sand Grains	
			Indicators for Problematic Hydric Soils ³ :
			2 cm Muck (A10) (LRR A, E)
			Iron-Manganese Masses (F12) (LRR D)
		was at MI DA 4)	Red Parent Material (F21)
		xcept MLRA 1)	Very Shallow Dark Surface (F22)
			Other (Explain in Remarks)
			31-diseases of building building to the second state of the second
The state of the s			Indicators of hydrophytic vegetation and
	2 10 10 10 10 10 10 10 10 10 10 10 10 10		wetland hydrology must be present,
Redox Depressio	ilis (FO)		unless disturbed or problematic.
		11. 12. 2	Soil Present? Yes No
A. 5555			
check all that apply)			Secondary Indicators (2 or more required)
Water-Stained Le		except	Water-Stained Leaves (B9) (MLRA 1, 2
Water-Stained Le		except	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11)	A, and 4B)	except	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra	A, and 4B) ates (B13)	except	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	A, and 4B) ates (B13) Odor (C1)		Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	A, and 4B) ates (B13) Odor (C1) wheres on Liv	ring Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	A, and 4B) ates (B13) Odor (C1) oheres on Liv	ring Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	A, and 4B) ates (B13) Odor (C1) wheres on Livuced Iron (Couction in Tille	ring Roots (C3) 4) d Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	A, and 4B) ates (B13) Odor (C1) cheres on Livuced Iron (Contion in Tille	ring Roots (C3) 4) d Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	A, and 4B) ates (B13) Odor (C1) cheres on Livuced Iron (Contion in Tille	ring Roots (C3) 4) d Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	A, and 4B) ates (B13) Odor (C1) cheres on Livuced Iron (Contion in Tille	ring Roots (C3) 4) d Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) cheres on Liv uced Iron (Couction in Tille and Plants (D Remarks)	ring Roots (C3) 4) d Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) cheres on Livuced Iron (C- cition in Tille and Plants (D Remarks)	ring Roots (C3) 4) d Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) beres on Livuced Iron (Contion in Tille and Plants (Di Remarks) (inches): (inches):	ring Roots (C3) 4) d Soils (C6) 1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) cheres on Livuced Iron (C- cition in Tille and Plants (D Remarks)	ring Roots (C3) 4) d Soils (C6) 1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) beres on Livuced Iron (Couction in Tille ed Plants (Di Remarks) (inches): (inches):	ring Roots (C3) 4) d Soils (C6) 1) (LRR A) Wetlar	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) beres on Livuced Iron (Couction in Tille ed Plants (Di Remarks) (inches): (inches):	ring Roots (C3) 4) d Soils (C6) 1) (LRR A) Wetlar	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Water-Stained Le MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	A, and 4B) ates (B13) Odor (C1) beres on Livuced Iron (Couction in Tille ed Plants (Di Remarks) (inches): (inches):	ring Roots (C3) 4) d Soils (C6) 1) (LRR A) Wetlar	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
	duced Matrix, CS=Co s, unless otherwise Sandy Gleyed M: Sandy Redox (S: Stripped Matrix (S: Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (S: Redox Dark Surfi	duced Matrix, CS=Covered or Coas, unless otherwise noted.) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	duced Matrix, CS=Covered or Coated Sand Grains s, unless otherwise noted.) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR

Project/Site: S1 and EVI		City/Cou	nty: Fla	rence / love Sampling Date: 10/09
Applicant/Owner: City of Florence		_ Oily/Cou	110	State: O.R. Sampling Point: 5B
Investigator(s): Raha		Section 7	ownship, R	
				vex, none): CVN Call Slope (%): 4
				-124.115049 Datum: NAD8
Soil Map Unit Name: 131C Ricky - Kes				
Are climatic / hydrologic conditions on the site typical				
Are Vegetation, Soil, or Hydrology				
Are Vegetation , Soil , or Hydrology				
				ocations, transects, important features, etc.
Hydric Soil Present? Yes	No No		e Sampled A	~
Remarks:				
VEGETATION – Use scientific names of	nlante			
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10 m 2)	% Cover	Species?	Status	Dominance Test worksheet:
1. Arnus rubra	37)	4_	PAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3	_			Total Number of Dominant Species Across All Strata: (B)
		Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size: 5 m 2)		a.c	Are OBL, FACW, or FAC:
1. Rubus Spectabollis	90	yes_	1/1-	Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4.				OBL species x 1 =
5	1/2			FACW species x 2 =
Herb Stratum (Plot size:)	40 =	Total Cover		FAC species
1				UPL species x5=
2.				Column Totals: 120 (A) 360 (B)
3.				Prevalence Index = B/A = 3
4				Midesphide Verstaling Indicators
6.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7,				₹ 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
9.				4 - Morphological Adaptations (Provide supporting
10				data in Remarks or on a separate sheet)
11		Total Cover		5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:		Total Gover		¹Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2		- 1772		Hydrophytic
% Bare Ground in Herb Stratum		Total Cover		Vegetation Present? Yes No
Remarks:				

Sampling Point: 58

Depth	Matrix		Red	ox Featur	es					
inches) Cold	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-1 10	42311	100					orga	ma		
1-6 10	42311	95	54896	5	1	M	much		al	
6-20 10		90	54R576	10	-	m	Sci	2		
	7~00				=		SING			
Type: C=Concentra						oated Sa			: PL=Pore Lining, M=Mai r Problematic Hydric Sc	
Histosol (A1)			Sandy Gl	eyed Mat	rix (S4)			2 cm Muc	k (A10) (LRR A, E)	
Histic Epipedon (A2)		Sandy Re	dox (S5)				Iron-Mang	ganese Masses (F12) (LF	RRD)
Black Histic (A3)			Stripped I	Matrix (Se	5)			Red Pare	nt Material (F21)	
Hydrogen Sulfide	e (A4)		Loamy Mi	ucky Mine	eral (F1)	except	MLRA 1)	Very Shall	llow Dark Surface (F22)	
1 cm Muck (A9) ((LRR D, G)		Loamy GI	eyed Mat	trix (F2)			Other (Ex	plain in Remarks)	
Depleted Below I	Dark Surface	(A11)	Depleted	Matrix (F	3)					
Thick Dark Surfa	ce (A12)		Redox Da	rk Surfac	e (F6)		3In	dicators of	hydrophytic vegetation ar	nd
Sandy Mucky Mir	neral (S1)		Depleted	Dark Sur	face (F7)			wetland h	ydrology must be present	t,
2.5 cm Mucky Pe	eat or Peat (S	(LRR	G) Redox De	pression	s (F8)			unless dis	sturbed or problematic.	
	observeu).									
Restrictive Layer (if Type: Depth (inches): Remarks:							Hydric Soil P	resent?	Yes <u>b</u>	No_
Type: Depth (inches): Remarks:: YDROLOGY							Hydric Soil P	resent?	Yes <u>b</u>	No
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology	Indicators:	ne is requ	uired: check all that	apply)						
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology	Indicators:	ne is requ			ves (B9)	(except		condary Inc	dicators (2 or more require	ed)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A	Indicators:	ne is requ	Water-Sta					condary Inc	dicators (2 or more require	ed)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Surface Water (A	Indicators:	ne is requ	Water-Sta	ined Lea 1, 2, 4A,				condary Inc Water-Sta 4A, an	dicators (2 or more require	ed)
Type: Depth (inches): Remarks:: YDROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A High Water Table	Indicators: inimum of or	ne is requ	Water-Sta	ined Lea 1, 2, 4A, (B11)	and 4B)			condary Inc Water-Sta 4A, an Drainage	dicators (2 or more require nined Leaves (B9) (MLRA d 4B)	ed)
Type: Depth (inches): Remarks: POROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3)	Indicators: inimum of or .1) e (A2)	ne is requ	Water-Sta MLRA Salt Crust	ined Lea 1, 2, 4A, (B11) vertebrat	and 4B) es (B13)			water-Sta 4A, an Drainage Dry-Seaso	dicators (2 or more require ained Leaves (B9) (MLRA aid 4B) Patterns (B10)	ed)
Type: Depth (inches): Remarks: POROLOGY Vetland Hydrology Inimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	Indicators: inimum of or 1) e (A2)	ne is requ	Water-Sta MLRA Salt Crust Aquatic In	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C	and 4B) es (B13) Odor (C1)		<u>Se</u>	condary Inc Water-Sta 4A, an Drainage Dry-Seaso Saturation	dicators (2 or more require nined Leaves (B9) (MLRA d 4B) Patterns (B10) on Water Table (C2)	ed)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus	Indicators: inimum of or inimum	ne is requ	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduce	es (B13) Odor (C1) eres on L	iving Ro	ots (C3)	Condary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Geomorph Shallow A	dicators (2 or more requirement of the control of t	ed)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5	Indicators: inimum of or (1) (A2) (B2) (ts (B2) (B3) (tt (B4) (b)	ne is requ	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduct on Reduct	es (B13) Odor (C1) eres on L ced Iron (ton in Til	iving Ro C4) led Soils	ots (C3)	Condary Inc. Water-Sta 4A, an Drainage Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	dicators (2 or more required lined Leaves (B9) (MLRA of 4B) Patterns (B10) on Water Table (C2) on Visible on Aerial Imager hic Position (D2) equitard (D3) tral Test (D5)	ed)
Type: Depth (inches): Demarks: POROLOGY Vetland Hydrology rimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac	Indicators: inimum of or inimum		Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized If Presence Recent Iro Stunted of	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduc r Stresse	es (B13) Odor (C1) eres on L ed Iron (I tion in Til d Plants (iving Ro C4) led Soils	ots (C3)	water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	dicators (2 or more requirement of the control of t	ed)
Type: Depth (inches): emarks: POROLOGY Petland Hydrology rimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible	Indicators: inimum of or 1) e (A2)) tts (B2) B) et (B4) 6) eks (B6) e on Aerial In	nagery (E	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro Stunted on Other (Ex	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduc r Stresse	es (B13) Odor (C1) eres on L ed Iron (I tion in Til d Plants (iving Ro C4) led Soils	ots (C3)	water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	dicators (2 or more required lined Leaves (B9) (MLRA of 4B) Patterns (B10) on Water Table (C2) on Visible on Aerial Imager hic Position (D2) equitard (D3) tral Test (D5)	ed)
Type: Depth (inches): Itemarks: YDROLOGY Vetland Hydrology rimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Sparsely Vegetat	Indicators: inimum of or 1) e (A2)) tts (B2) B) et (B4) 6) eks (B6) e on Aerial In	nagery (E	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro Stunted on Other (Ex	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduc r Stresse	es (B13) Odor (C1) eres on L ed Iron (I tion in Til d Plants (iving Ro C4) led Soils	ots (C3)	water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	dicators (2 or more requirement of the control of t	ed)
Type: Depth (inches): Depth (inches): Demarks: POROLOGY Vetland Hydrology rimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Sparsely Vegetat ield Observations:	Indicators: inimum of or inimum	nagery (E Surface	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized If Presence Recent Iro Stunted or Other (Ex	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduct on Reduct Stressed plain in R	es (B13) Odor (C1) eres on L ed Iron (I tion in Til d Plants (emarks)	iving Ro C4) led Soils	ots (C3)	water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	dicators (2 or more requirement of the control of t	ed)
Type: Depth (inches): Pemarks: POROLOGY Vetland Hydrology rimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Sparsely Vegetat ield Observations: urface Water Preser	Indicators: inimum of or inimum	nagery (E Surface	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro Stunted or Other (Exp. (B8)	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduct on Reduct Stressed plain in R	es (B13) Odor (C1) eres on L ced Iron (toon in Till d Plants (emarks)	iving Ro C4) led Soils	ots (C3)	water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar	dicators (2 or more requirement of the control of t	ed)
Type: Depth (inches): Remarks: POROLOGY Vetland Hydrology Inimary Indicators (m. Surface Water (A.) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crus Iron Deposits (B5) Surface Soil Crac Inundation Visible Sparsely Vegetat Veter Table Present	Indicators: inimum of or inimum	magery (E Surface	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Irc Stunted on Other (Ex	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduc on Reduc Stressed plain in R	es (B13) Ddor (C1) eres on L ed Iron (I tion in Til d Plants (emarks) nches):nches);	iving Ro C4) led Soils	ots (C3) V	Condary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea	dicators (2 or more required to the same of the same o	ed) 11, 2
Type: Depth (inches): Depth (inches): Demarks: POROLOGY Vetland Hydrology rimary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Sparsely Vegetat Veter Table Present? Saturation Present?	Indicators: inimum of or inimum	magery (E Surface	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro Stunted or Other (Exp. (B8)	ined Lea 1, 2, 4A, (B11) vertebrat Sulfide C Rhizosph of Reduct on Reduct Stressed plain in R	es (B13) Ddor (C1) eres on L ed Iron (I tion in Til d Plants (emarks) nches):nches);	iving Ro C4) led Soils	ots (C3)	Condary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea	dicators (2 or more required to the same of the same o	ed)
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Appendix C Ground-Level Color Photographs

Photo 1 (facing north toward Wetland 1)



Photo 2 (facing west)



Photo 3 (facing west)

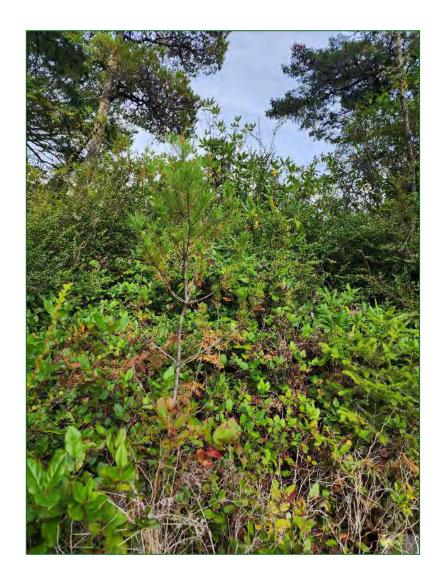


Photo 4 (facing northwest, down to Wetland 1)

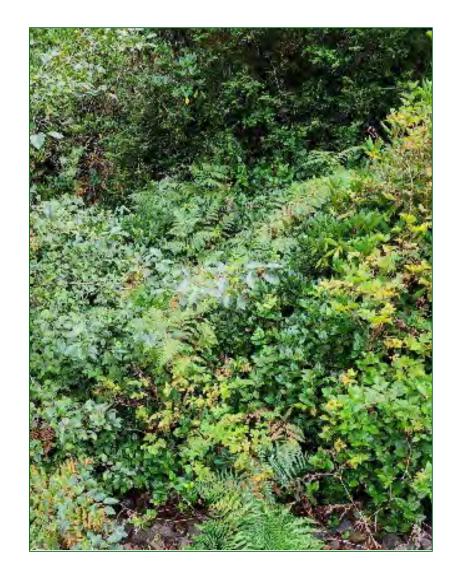


Photo 5 (facing north)

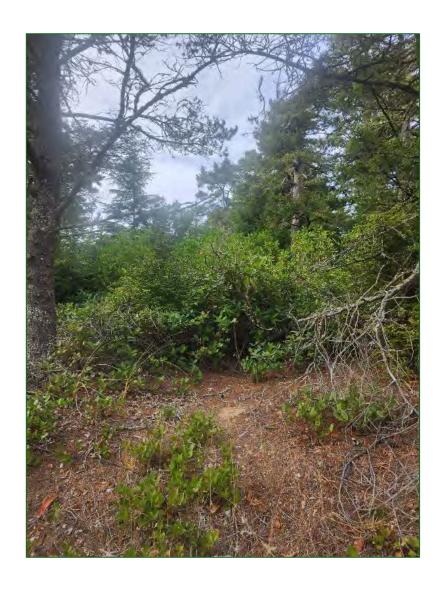
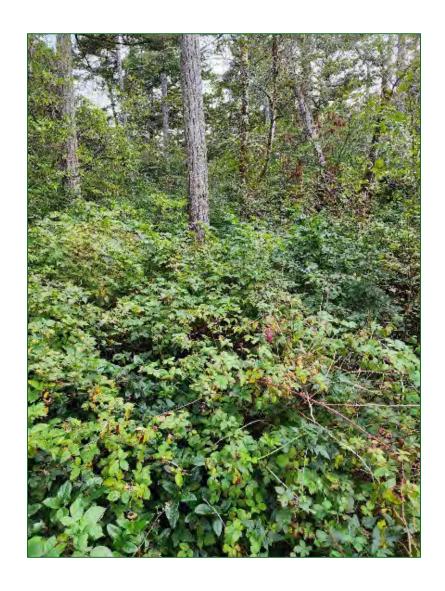


Photo 6 (facing south)



Appendix D References

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