pplicant/Owner: DESCHUTES COUNTY nvestigator(s): ALISON SIGLER, SARAH HARTUNG Landform (hillslope, terrace, etc.): Floodplain		Section, To	washin B	State: OR		ng Point:_	SP 33A
•		Section, To	wnchin D	• • • • • • • • • • • • • • • • • • • •			
Landform (hillslope, terrace, etc.): Floodplain			wiisiip, K	ange: 5 10	T_21 S	R_10 E	
		Local relief (concave, convex, none): flat Slope					0.0% / 0.0
ubregion (LRR): LRR A	Lat .: 43	.7723		Long.: -121.5183		Datun	n: NAD83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per			NWI cla	ssification: P	SSC		
e climatic/hydrologic conditions on the site typical for this	? Yes	• No	(If no, explain	in Remarks.)			
re Vegetation 🔲 , Soil 🔲 , or Hydrology 🗌	significantly	disturbed?	Are "N	Iormal Circumstances	s" present?	Yes	No O
re Vegetation . , Soil . , or Hydrology .	naturally pro	blematic?	(If ne	eded, explain any ans	swers in Rem	arks.)	
Summary of Findings - Attach site map sh				•			tures, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Aron			
Hydric Soil Present? Yes • No •				Van (Na ()		
Wetland Hydrology Present? Yes No		within	a Wetland	19 - 100 - 110 -			
Remarks: Off-site determination. No digging allowed without a state VEGETATION - Use scientific names of plan		Dominant					_
	Absolute	—Species? Rel.Strat.	Indicator	Dominance Test w	orksheet:		
Tree Stratum (Plot size:	% Cover		Status	Number of Dominant	Species		
1 Pinus contorta			FAC	That are OBL, FACW,	, or FAC:	4	(A)
2,		0.0%		Total Number of Don			
4.		0.0%		Species Across All Str	rata:	4	(B)
Sapling/Shrub Stratum (Plot size:	5	= Total Cove	er	Percent of domina That Are OBL, FAC		100.0	% (A/B)
1. Salix exigua	60	100.0%	OBL	Prevalence Index v	vorksheet:		
2		0.0%		Total % Cove	er of: Mi	ultiply by:	
3		0.0%		OBL species	130 x	1 =1	30
4		0.0%		FACW species		2 =	60
5		0.0%		FAC species		J – —	15
Herb Stratum (Plot size:	60	= Total Cove	er	FACU species		4 =	0
1 Carex aquatilis	70	70.0%	OBL	UPL species	x		0
2 Juncus balticus	30	30.0%	FACW	Column Totals:	<u>165</u> (A) _2	105 (B)
3		0.0%		Prevalence Inc	dex = B/A =	1.24	2
4.		0.0%		Hydrophytic Vegeta	ation Indicato	rs:	
5		0.0%		✓ Dominance Te	est is > 50%		
6		0.0%		✓ Prevalence In	dex is ≤3.0 ¹		
7		0.0%		☐ Morphological			
8. 9.		0.0%		data in Remar	•		et)
10.		0.0%		Wetland Non-			
11.	_	0.0%		☐ Problematic H	ydrophytic Ve	egetation	(Explain)
	100	= Total Cove	er	¹ Indicators of hydr be present, unless			
Woody Vine Stratum (Plot size:							
1		0.0%					
2		0.0%		Hydrophytic Vegetation			
	0	= Total Cove	er	Present? Y€	es 💿 No 🤇	J	
% Bare Ground in Herb Stratum: 0							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth	Matrix	Redox Fe		
ches) Color	(moist) %	Color (moist) %	Type ¹ Loc	2 Texture Remarks
e: C=Concentration.	D=Depletion. RM=Reduc	ed Matrix, CS=Covered or C	oated Sand Grains	² Location: PL=Pore Lining. M=Matrix
	•	Rs, unless otherwise note		Indicators for Problematic Hydric Soils:3
Histosol (A1)	(фр	Sandy Redox (S5)	,	2 cm Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (S6)		Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Minera	I (F1) (except in MLR	
Hydrogen Sulfide (A	1)	Loamy Gleyed Matrix		
Depleted Below Dark	Surface (A11)	Depleted Matrix (F3)		
Thick Dark Surface (•	Redox Dark Surface		³ Indicators of hydrophytic vegetation and
Sandy Muck Mineral		Depleted Dark Surface Redox depressions (I		wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix	• •	Redox depressions (i	-8)	unless disturbed of problematic.
rictive Layer (if pr	esent):			
ype:				Hydric Soil Present? Yes No
onth (inches).				
narks:	LS BASED ON HYDRO	LOGY		Tes C NO C
narks: IMED HYDRIC SOI	LS BASED ON HYDRO	LOGY		ilyuno ooni i rosenii. I jes C i Nu C
narks: IMED HYDRIC SOI Irology		LOGY		ilyano son rieseni.
narks: JMED HYDRIC SOI Irology land Hydrology Ind	dicators:			
narks: JMED HYDRIC SOI Irology land Hydrology Indicators (mi	dicators:	d; check all that apply)		Secondary Indicators (minimum of two rec
narks: IMED HYDRIC SOI Irology Iand Hydrology Indicators (mi	dicators: nimum of one require	d; check all that apply)	ves (B9) (except MLR/	Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2,
Irology land Hydrology Indicators (mi	dicators: nimum of one require	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B)	ves (B9) (except MLR/	Secondary Indicators (minimum of two rec
rology and Hydrology Inary Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3)	dicators: nimum of one require	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11)		Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
rology and Hydrology Inary Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	dicators: nimum of one require 2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra	tes (B13)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
rology and Hydrology Indicators (miles Water (A1)) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (dicators: nimum of one require 2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (tes (B13) Odor (C1)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
rology and Hydrology Indicators (miles Water (A1)) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (dicators: nimum of one require 2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (tes (B13)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift deposits (B3)	dicators: nimum of one require 2) B2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (tes (B13) Odor (C1) eres on Living Roots ((Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydrology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift deposits (B3) Algal Mat or Crust (E	dicators: nimum of one require 2) B2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe	tes (B13) Odor (C1) eres on Living Roots ((Secondary Indicators (minimum of two recomplete of two recompletes) 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)
Irology Iand Hydrology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift deposits (B3)	dicators: nimum of one require 2) B2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4)	Secondary Indicators (minimum of two recomplete of two recompletes) 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)
Irology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks (B1)	dicators: nimum of one require 2) B2)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A)	Secondary Indicators (minimum of two recomplete
rology and Hydrology Inary Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks (Inundation Visible o	dicators: nimum of one require 2) B2) 84)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stresser	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A)	Secondary Indicators (minimum of two red 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)
Irology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks (Inundation Visible of Sparsely Vegetated	dicators: nimum of one require 2) B2) 84) (B6) n Aerial Imagery (B7)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stresser	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A)	Secondary Indicators (minimum of two recomposed for the composed for the c
Irology Inarks: Imach Hydrology Indicators (miles and Hydrolog	dicators: nimum of one require 2) B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee Other (Explain in R	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A)	Secondary Indicators (minimum of two recomposed for the composed for the c
Irology Ind Hydrology Indicators (mi) Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks (Inundation Visible of Sparsely Vegetated (Company of Company of Compa	dicators: nimum of one require 2) B2) B4) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes No	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee Other (Explain in R	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A)	Secondary Indicators (minimum of two recompositions) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydrology Inchary Indicators (minery I	dicators: nimum of one require 2) B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8)	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee Other (Explain in R	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A) ermarks)	Secondary Indicators (minimum of two recompositions) 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)
Irology Iand Hydrology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible of Sparsely Vegetated d Observations: ace Water Present? er Table Present? ration Present?	dicators: nimum of one require 2) B2) B4) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes No	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee Other (Explain in Reduce) Depth (inches):	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A) ermarks)	Secondary Indicators (minimum of two recomposed for the composed for the c
Irology Iand Hydrology Indicators (mi) Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible of Sparsely Vegetated Indicators: Indicators (A) Indicators (A) Indicators (B) Indicators	dicators: nimum of one require 2) B2) B4) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee Other (Explain in R	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A) eremarks)	Secondary Indicators (minimum of two recompositions) 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)
Irology Index Hydrology Index Hydrology Index Hydrology Index Hydrology Index Indicators (miles Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible of Sparsely Vegetated Inducation Visible of Company Indication Visible Office	dicators: nimum of one require 2) B2) B4) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes	d; check all that apply) Water-Stained Lear 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee Other (Explain in Reduce) Depth (inches):	tes (B13) Odor (C1) eres on Living Roots (Ged Iron (C4) tion in Tilled Soils (C6 d Plants (D1) (LRR A) eremarks)	Secondary Indicators (minimum of two recompleted 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)

Project/Site: DESCHUTES LWI	City/County: SUNRIVE	R/DESCHUTES Sampling Date: 24-Jun-10		
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 35A		
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township,	Range: S 10 T 21 S R 10 E		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave	e, convex, none): flat Slope: 0.0% / 0.0		
Subregion (LRR): LRR A	Lat.: 43.7732	Long.: -121.5246 Datum: NAD83		
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per				
e climatic/hydrologic conditions on the site typical for this	🔊	NWI classification: R2UBH (If no, explain in Remarks.)		
	•	"Normal Circumstances" present? Yes No		
		needed, explain any answers in Remarks.)		
	•			
	lowing sampling point to	cations, transects, important features, et		
	Is the Sampleo			
	within a Wetla	_{nd?} Yes ◉ No ○		
, ,,				
Remarks: OFF-SITE DETERMINATION				
OIT-SITE DETERMINATION				
VEGETATION - Use scientific names of plar	nts. Dominant			
	Species?Species? Absolute Rel.Strat. Indicato	Dominance Test worksheet:		
Tree Stratum (Plot size:	% Cover Cover Status	Number of Dominant Species		
1,		That are OBL, FACW, or FAC: 2 (A)		
2		Total Number of Dominant		
3	0 0.0%	Species Across All Strata: 2 (B)		
4		Percent of dominant Species		
Sapling/Shrub Stratum (Plot size:	0 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)		
1, Salix exigua	2 <u>100.0%</u> OBL	Prevalence Index worksheet:		
2.	0 0.0%	Total % Cover of: Multiply by:		
3	0	OBL species 102 x 1 = 102		
4	0	FACW species0 x 2 =0		
5	0	FAC species x 3 =0		
Herb Stratum (Plot size:	2 = Total Cover	FACU species $0 \times 4 = 0$		
1 Carex aquatilis		UPL species $0 \times 5 = 0$		
2.	0 0.0%	Column Totals: (A) (B)		
3		Prevalence Index = B/A =1.000_		
4.	0 0000	Hydrophytic Vegetation Indicators:		
5	0 0.0%	✓ Dominance Test is > 50%		
6	0	✓ Prevalence Index is ≤3.0 ¹		
7		Morphological Adaptations ¹ (Provide supporting		
8.		data in Remarks or on a separate sheet)		
9		Wetland Non-Vascular Plants ¹		
11		Problematic Hydrophytic Vegetation ¹ (Explain)		
11.	100 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must		
Woody Vine Stratum (Plot size:		be present, unless disturbed or problematic.		
1	0 0.0%	_		
2	0 0.0%	Hydrophytic		
	0 = Total Cover	Vegetation Present? Yes No		
% Bare Ground in Herb Stratum: 0				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth _	Matrix		Redox F			
ches)	Color (moist) 9	6 Colo	r (moist)	% Type ¹	Loc ²	Texture Remarks
e: C=Conce	entration. D=Depletion. RM	=Reduced Matr	x, CS=Covered or	Coated Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Matrix
	dicators: (Applicable to					Indicators for Problematic Hydric Soils:3
Histosol (A1			Sandy Redox (S5)	,		2 cm Muck (A10)
Histic Epipe	•		Stripped Matrix (S6)		Red Parent Material (TF2)
Black Histic	(A3)	L	oamy Mucky Miner	ral (F1) (except i	n MLRA 1)	Other (Explain in Remarks)
Hydrogen S	Sulfide (A4)		oamy Gleyed Matr			
Depleted Be	elow Dark Surface (A11)		Depleted Matrix (F3			
	Surface (A12)		Redox Dark Surface			³ Indicators of hydrophytic vegetation and
-	Mineral (S1)		Depleted Dark Surfa Redox depressions			wetland hydrology must be present, unless disturbed or problematic.
	ed Matrix (S4)	r	redox depressions	(F8)		unless disturbed of problematic.
rictive Lay	er (if present):					
ype:						Hydric Soil Present? Yes ● No ○
epth (inche	oc).					nvulic soil Present: Yes (5) Nn (7)
	RIC SOILS BASED ON H	HYDROLOGY				190 5 110 5
IMED HYD		HYDROLOGY				
IMED HYD	RIC SOILS BASED ON H	HYDROLOGY				
INED HYD	RIC SOILS BASED ON H					
IMED HYD Irology Iand Hydro	RIC SOILS BASED ON H blogy Indicators: ators (minimum of one r					Secondary Indicators (minimum of two r
rology and Hydro ary Indica	Dlogy Indicators: ators (minimum of one r		Water-Stained Le	aves (B9) (excep	t MLRA	Secondary Indicators (minimum of two rows Water-Stained Leaves (B9) (MLRA 1, 2,
Irology Iand Hydro Iary Indica Surface Wa	plogy Indicators: ators (minimum of one rater (A1)		Water-Stained Le 1, 2, 4A, and 4B)	aves (B9) (excep	t MLRA	Secondary Indicators (minimum of two rows Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Irology Iand Hydro Iary Indica Surface Wa High Water Saturation	plogy Indicators: ators (minimum of one rater (A1) - Table (A2) (A3)	required; chec	Water-Stained Let 1, 2, 4A, and 4B) Salt Crust (B11)		t MLRA	Secondary Indicators (minimum of two rows) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Indica Surface Wa High Water Saturation Water Marl	cology Indicators: ators (minimum of one rater (A1) - Table (A2) (A3) (S (B1)	required; chec	Water-Stained Let 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr	ates (B13)	t MLRA	Secondary Indicators (minimum of two rows and Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
rology land Hydro ary Indica Surface Wa High Water Saturation Water Mark Sediment E	plogy Indicators: ators (minimum of one rater (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A6) (A6) (A6)	required; chec	Water-Stained Le. 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	ates (B13) Odor (C1)		Secondary Indicators (minimum of two rows water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydro ary Indica Surface Wa High Water Saturation Water Marl Sediment I Drift depos	plogy Indicators: ators (minimum of one rater (A1) Table (A2) (A3) ss (B1) Deposits (B2) its (B3)	required; chec	Water-Stained Le 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosph	ates (B13) Odor (C1) neres on Living R		Secondary Indicators (minimum of two rows) 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)
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Irology Indica Surface Wa High Water Saturation Water Marl Sediment E Drift depos Algal Mat co Iron Depos Surface So Inundation Sparsely Vo	Pology Indicators: ators (minimum of one relater (A1) Table (A2) (A3) Ass (B1) Deposits (B2) Aits (B3) Or Crust (B4) Aits (B5) Il Cracks (B6) Visible on Aerial Imagery (Appendix Concave Surface (Appen	required; chec	Water-Stained Let 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) neres on Living R ced Iron (C4) iction in Tilled So ed Plants (D1) (L	oots (C3) ils (C6)	Secondary Indicators (minimum of two reconstructions) 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)
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Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	/DESCHUTES Sampling Date: 24-Jun-10		
Applicant/Owner: DESCHUTES COUNT	Υ				State: OR Sampling Point: SP 36A		
Investigator(s): ALISON SIGLER, SARA	\H HARTUNG		Section, To	wnship, R	ange: S 10		
Landform (hillslope, terrace, etc.):	Floodplain		Local relief	(concave,	convex, none): flat Slope: 0.0% / 0.		
Subregion (LRR): LRR A		Lat.: 43	7739		Long.: -121.5238 Datum: NAD83		
Soil Map Unit Name: 144A: Sunriver	aandu laam 0 ta 2 n						
Are climatic/hydrologic conditions on							
Are Vegetation, Soil	, or Hydrology	significantly			No O		
	. , ., .						
Are Vegetation, Soil	, or Hydrology	naturally pro	blematic?	(If nee	eded, explain any answers in Remarks.)		
Summary of Findings - At	tach site map s	howing sa	mpling p	oint loc	ations, transects, important features, et		
Hydrophytic Vegetation Present?	Yes ● No ○						
Hydric Soil Present?	Yes ● No ○		Is the	Sampled A			
Wetland Hydrology Present?	Yes ● No ○		within	a Wetland	_{d?} Yes ◉ No ○		
Remarks:							
On-site determination. No digging	allowed without a st	ate cultural res	ource permit				
33 3							
VEGETATION - Use scien	tific names of pla	ants.	Dominant				
		Absolute	Species? Rel.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species		
1		0	0.0%		That are OBL, FACW, or FAC:5(A)		
2		0	0.0%		Total Number of Dominant		
3			0.0%		Species Across All Strata: 5 (B)		
4			0.0%		Percent of dominant Species		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B)		
1. Salix exigua			66.7%	OBL	Prevalence Index worksheet:		
2. Pinus contorta		10	33.3%	FAC	Total % Cover of: Multiply by:		
3			0.0%		0BL speci es60 x 1 =60		
4			0.0%		FACW species 40 x 2 =80		
5			0.0%		FAC species $30 \times 3 = 90$		
Herb Stratum (Plot size:)	30	= Total Cove	er	FACU species $0 \times 4 = 0$		
1 Smilacina stellata	,	20	2 0.0%	FAC	UPL species 0 x 5 = 0		
2 Carex aquatilis		40	40.0%	OBL	Column Totals: 130 (A) 230 (B)		
3 Juncus balticus			20.0%	FACW	Prevalence Index = B/A = 1.769		
4. Poa trivialis		10	10.0%_	FACW	Hydrophytic Vegetation Indicators:		
5 Spiraea douglasii		10	10.0%	FACW	✓ Dominance Test is > 50%		
6			0.0%		✓ Prevalence Index is ≤3.0 ¹		
7			0.0%		☐ Morphological Adaptations ¹ (Provide supporting		
8.———			0.0%		data in Remarks or on a separate sheet)		
9. 10.			0.0%				
11.		_	0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)		
11,		100	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must		
Woody Vine Stratum (Plot size:)	-			be present, unless disturbed or problematic.		
1.		0	0.0%				
2.		0	0.0%		Hydrophytic		
		0	= Total Cove	er	Vegetation Present? Yes ● No ○		
% Bare Ground in Herb Stratum	: 0						
Remarks:							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth	Matrix	Redox F		
ches) Color	(moist) %	Color (moist)	% Type ¹ Loc	Texture Remarks
e: C=Concentration.	D=Depletion. RM=Reduc	ed Matrix, CS=Covered or	Coated Sand Grains	² Location: PL=Pore Lining. M=Matrix
	•	Rs, unless otherwise no		Indicators for Problematic Hydric Soils:3
Histosol (A1)	(Sandy Redox (S5)	,	2 cm Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (S6))	Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Miner	al (F1) (except in MLR	
Hydrogen Sulfide (A	1)	Loamy Gleyed Matri		
Depleted Below Dark	Surface (A11)	Depleted Matrix (F3		
Thick Dark Surface (•	Redox Dark Surface		³ Indicators of hydrophytic vegetation and
Sandy Muck Mineral		Depleted Dark Surfa		wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix	• •	☐ Redox depressions	(F8)	unless disturbed of problematic.
rictive Layer (if p	esent):			
ype:				
onth (inchoc):				
narks:	ED ON HYDROLOGY			Hydric Soil Present? Yes No
narks: IMED HYDRIC BAS	ED ON HYDROLOGY			Hydric Soil Present? Yes No
narks: JMED HYDRIC BAS Jrology				Hydric Soil Present? Yes No
narks: JMED HYDRIC BAS Irology land Hydrology In	dicators:			
narks: JMED HYDRIC BAS Irology land Hydrology In nary Indicators (m	dicators:	d; check all that apply)		Secondary Indicators (minimum of two rec
narks: IMED HYDRIC BAS Irology Iand Hydrology In nary Indicators (m Surface Water (A1)	dicators: nimum of one require	Water-Stained Lea	aves (B9) (except MLR	Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2,
Irology Indicators (mary Indicators (mar	dicators: nimum of one require	Water-Stained Lea	aves (B9) (except MLR	Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
rology and Hydrology In ary Indicators (m Surface Water (A1) High Water Table (A) Saturation (A3)	dicators: nimum of one require	Water-Stained Lead 1, 2, 4A, and 4B) Salt Crust (B11)		Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
rology and Hydrology In ary Indicators (m Surface Water (A1) High Water Table (A) Water Marks (B1)	dicators: nimum of one require 2)	Water-Stained Leanner 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr.	ates (B13)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
rology and Hydrology In ary Indicators (m Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits	dicators: nimum of one require 2)	Water-Stained Le: 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide	ates (B13) Odor (C1)	Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydrology Interpretation (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B3)	dicators: nimum of one require 2) B2)	Water-Stained Le. 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosph	ates (B13) Odor (C1) neres on Living Roots (Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydrology In ary Indicators (m Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	dicators: nimum of one require 2) B2)	Water-Stained Le: 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide	ates (B13) Odor (C1) neres on Living Roots (Secondary Indicators (minimum of two rec Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
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Irology Iand Hydrology In ary Indicators (m Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	dicators: nimum of one require 2) B2)	Water-Stained Lea 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Oxidized Rhizosph Presence of Redu	ates (B13) Odor (C1) neres on Living Roots (ced Iron (C4)	Secondary Indicators (minimum of two recomposed 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)
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Project/Site: DESCHUTES LWI	Ci	ity/County:	SUNRIVER/	DESCHUTES	Sampli	ng Date: 24-J	un-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Point:	SP 37A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, Ra	ange: S 10	T 21 S	R 10 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief (concave,	convex, none): flat		Slope:	0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.	7746		Long.: -121.5260)	— Datur	n: NAD83
	lap Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent slopes					 : PFOC/PEMC	
re climatic/hydrologic conditions on the site typical for this		Yes	● No (·
	significantly d			lormal Circumstance			No O
	-				-		
-	naturally prob		•	eded, explain any a		•	
Summary of Findings - Attach site map sh	owing sar	npling po	oint loc	ations, transe	cts, impo	ortant fea	itures, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area			
Hydric Soil Present? Yes No		within	a Wetland	Yes No	\circ		
Wetland Hydrology Present? Yes No		Within	a wetiane				
Remarks:							
OFF-SITE DETERMINATION							
VECTATION . Her scientific names of plan	±0	Dominant					
VEGETATION - Use scientific names of plan		_Species? _		1			
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test			
1. Pinus contorta	20	1 00.0%	FAC	Number of Domina That are OBL, FAC\		4	(A)
2	0	0.0%		Tatal Number of De			
3	0	0.0%		Total Number of Do Species Across All S		4	(B)
4	0	0.0%		Danasat of dansin	C!		
Sapling/Shrub Stratum (Plot size:		= Total Cove	r	Percent of domin That Are OBL, FA		100.0	0% (A/B)
1. Salix exigua	10	100.0%	OBL	Prevalence Index	worksheet:		
2		0.0%		Total % Co	ver of:	Multiply by:	
3		0.0%		OBL speci es	10	x 1 =	10
4		0.0%		FACW species			200
J		0.0%		FAC speci es		^	60
Herb Stratum (Plot size:	10 :	= Total Cove	r	FACU species		x 4 =	0
1 Carex sp.	80	✓ 80.0%	FACW	UPL speci es		x 5 = -	
2. Juncus balticus	20	20.0%	FACW	Column Totals:	130	(A)	270 (B)
3	0	0.0%		Prevalence I	ndex = B/A	= 2.07	<u>'7</u>
4		0.0%		Hydrophytic Vege			
5		0.0%		✓ Dominance 1			
6	_	0.0%		✓ Prevalence I	ndex is ≤3.0)1	
7.————————————————————————————————————		0.0%		Morphologic		ns ¹ (Provide separate she	
9	_	0.0%		Wetland Nor		•	et)
10.		0.0%				Vegetation ¹	(Evolain)
11.	_	0.0%				· ·	
	100=	= Total Cove	r	¹ Indicators of hyd be present, unles			
Woody Vine Stratum (Plot size:							
1		0.0%		I brahamite atte			
2		0.0%		Hydrophytic Vegetation	res ● No	. (
	=	= Total Cove	r	Present?	res 🔍 No	, ()	
% Bare Ground in Herb Stratum: 0							
Remarks:							
Carex sp. assumed to be FACW.							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

oil			Sampling Point: 37A
rofile Description: (I	Describe to the depth i	needed to document the indicator or confirm	the absence of indicators.)
Depth	Matrix	Redox Features	
(inches) Colo	(moist) %	Color (moist) % Type ¹ Lo	c ² Texture Remarks
vpe: C=Concentration	D=Depletion, RM=Redu	ced Matrix, CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining. M=Matrix
J.	•	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A1)	. (Applicable to all Liv	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	•	Loamy Mucky Mineral (F1) (except in MLF	
Hydrogen Sulfide (A	4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dar	k Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface	(A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Muck Minera	(S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matri	(S4)	Redox depressions (F8)	unless disturbed or problematic.
estrictive Layer (if p	resent):		
Туре:			
			Hydric Soil Present? Yes No
	SED ON HYDROLOGY		nyano osani resona. Pes e ind e
emarks: SUMED HYDRIC BA	SED ON HYDROLOGY		nganesan resemble
emarks: SUMED HYDRIC BA			THE CONTROL TO THE CO
emarks: SUMED HYDRIC BA ydrology [etland Hydrology In	ndicators:	and chack all that apply)	
emarks: SUMED HYDRIC BA ydrology etland Hydrology Ir rimary Indicators (m	ndicators:	ed; check all that apply)	Secondary Indicators (minimum of two requi
emarks: SUMED HYDRIC BA /drology etland Hydrology Ir imary Indicators (m / Surface Water (A1)	ndicators: ndimum of one require	ed; check all that apply) Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two requications) Water-Stained Leaves (B9) (MLRA 1, 2,
emarks: SUMED HYDRIC BA /drology etland Hydrology Ir imary Indicators (m Surface Water (A1) High Water Table (ndicators: ndimum of one require	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two requ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
emarks: SUMED HYDRIC BA /drology etland Hydrology Ir imary Indicators (m Surface Water (A1) High Water Table (Saturation (A3)	ndicators: ndimum of one require	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11)	Secondary Indicators (minimum of two requals Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
emarks: SUMED HYDRIC BA /drology etland Hydrology Ir imary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1)	ndicators: ninimum of one require A2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (minimum of two requests) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
emarks: SUMED HYDRIC BA Idrology etland Hydrology Ir imary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits	ndicators: ninimum of one require A2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two requests) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
drology etland Hydrology Ir imary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift deposits (B3)	ndicators: linimum of one require A2) (B2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots	Secondary Indicators (minimum of two requests) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
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rdrology etland Hydrology Ir imary Indicators (m' Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks Inundation Visible (ndicators: inimum of one require A2) (B2) (B4) (B6) on Aerial Imagery (B7)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4)) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two requests) 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)
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ydrology Vetland Hydrology Irrimary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated ield Observations:	ndicators: Ininimum of one require (B2) (B4) (B6) On Aerial Imagery (B7) Concave Surface (B8)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Compared on Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (minimum of two requires 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)
ydrology /etland Hydrology Irrimary Indicators (m Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)) Surface Soil Cracks Inundation Visible (Sparsely Vegetated (Iron Sparsely Vegetated (Iron Spa	A2) (B2) (B4) (B6) On Aerial Imagery (B7) Concave Surface (B8) Yes No Yes No	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Compared of Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Secondary Indicators (minimum of two requited 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)
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ydrology Vetland Hydrology Irrimary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift deposits (B3) Algal Mat or Crust (B5) Surface Soil Cracks Inundation Visible (Sparsely Vegetated (Sp	indicators: inimum of one require A2) (B2) (B4) (B6) On Aerial Imagery (B7) Concave Surface (B8) Yes No Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Compared of Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Secondary Indicators (minimum of two requited 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)
ydrology fetland Hydrology Irrimary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks Inundation Visible (Sparsely Vegetated eld Observations: urface Water Present? fater Table Present? fater Table Present? fater Table Present? fater Table Recorded Date	indicators: inimum of one require A2) (B2) (B4) (B6) On Aerial Imagery (B7) Concave Surface (B8) Yes No Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cd.) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (minimum of two requited 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)
emarks: SUMED HYDRIC BA ydrology etland Hydrology Irrimary Indicators (m Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Cracks Inundation Visible (a) Sparsely Vegetated eld Observations: urface Water Present? atter Table Present? atturation Present? includes capillary fringe	indicators: inimum of one require A2) (B2) (B4) (B6) On Aerial Imagery (B7) Concave Surface (B8) Yes No Yes No Yes No Yes No	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cd.) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (minimum of two required 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) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES	Sampling	Date: 24-J	un-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampl	ing Point:	SP 38A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, R	ange: S 9	T 21 S	R 10 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): flat		Slope:	0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43	.7755		Long.: -121.5301		Datur	n: NAD83
	ap Unit Name: 114C: Shanahan loamy coarse sand, 0 to 15 percent slopes				ssification: F		
re climatic/hydrologic conditions on the site typical for thi			s ● No ○		_		
Are Vegetation, Soil, or Hydrology	significantly			lormal Circumstances		Yes ●	No O
					•		
Are Vegetation 🔲 , Soil 📙 , or Hydrology 📙	naturally pro	biematic?	(If nee	eded, explain any ans	swers in Rem	arks.)	
Summary of Findings - Attach site map sl	nowing sa	mpling p	oint loc	ations, transec	ts, impor	tant fea	tures, et
Hydrophytic Vegetation Present? Yes ● No ○		Is the	Sampled A	∆rea			
Hydric Soil Present? Yes ● No ○			-	Vac (Na ()		
Wetland Hydrology Present? Yes No		withir	a Wetland	d? 103 0 110 0			
Remarks:		"					
On-site determination. No digging allowed without a state	e cultural reso	ource permit.					
VEGETATION - Use scientific names of pla	nts.	DominantSpecies?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test w	orksheet:		
4.8			FAC	Number of Dominant		3	(A)
1 Pinus contorta 2.		0.0%	TAG	That are OBL, FACW	, UI FAC.		(A)
3.	_	0.0%		Total Number of Don Species Across All Sti		3	(B)
4,	0	0.0%		Species Across Air Sti	ata.		(D)
	2	= Total Cove	er	Percent of domina That Are OBL, FAC		100.0	% (A/B)
Sapling/Shrub Stratum (Plot size:				That Are Obl., TAC	, W, OI TAC.		
1, Alnus incana		16.7%	FACW	Prevalence Index v			
2, Salix exigua		83.3%	OBL	Total % Cove		ultiply by:	
3		0.0%		OBL speci es			50
5.		0.0%		FACW species		_	80 <u> </u>
0.	60	= Total Cove		FAC species			0
Herb Stratum (Plot size:		- Total Cove	21	FACU species	^	4 =	0
1 Carex sp.	70	70.0%	FACW	UPL speci es	x	5 =	
2 Equisetum arvense	5	5.0%	FAC	Column Totals:			
3 Rumex uncinatus		10.0%	FACW	Prevalence Inc	dex = B/A =	1.82	7
4. Poa sp.	_	15.0%	FAC	Hydrophytic Vegeta		ors:	
5		0.0%		✓ Dominance Te			
6		0.0%		✓ Prevalence In		_	
8		0.0%		Morphological data in Remar			
9		0.0%		Wetland Non-			
10.	0	0.0%		☐ Problematic H			(Explain)
11	0	0.0%		¹ Indicators of hydr		· ·	• •
	100	= Total Cove	er	be present, unless			
Woody Vine Stratum (Plot size:	•	□ a ca:					
1		0.0%		Hydrophytic			
2				Vegetation	es • No	$\overline{}$	
% Bare Ground in Herb Stratum: ()	0	= Total Cove	at.	Present?	zo ⊡ NO \	\mathcal{L}	
TO BARE INFOLING IN HERD STRATILIM: ()				I			
Remarks:							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth	Matrix	Redox Features	
ches) Color (moist) %	Color (moist) % Type ¹ Loc	Z Texture Remarks
			_
	•		PLocation: PL=Pore Lining. M=Matrix
ric Soil Indicators: Histosol (A1)	(Applicable to all LRF	Rs, unless otherwise noted.) Sandy Redox (S5)	Indicators for Problematic Hydric Soils: ³ 2 cm Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except in MLRA	
lydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	
Depleted Below Dark		☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6)	2
Thick Dark Surface (A Sandy Muck Mineral (S	•	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Mack Milleral (Sandy Gleyed Matrix (•	Redox depressions (F8)	unless disturbed or problematic.
rictive Layer (if pre			
ype:			Hydric Soil Present? Yes ● No ○
epth (inches): narks: IMED HYDRIC SOIL	s based on hydrol	OGY	nyulic suil Present: Yes 🥹 NO 🔾
arks: MED HYDRIC SOIL	s based on hydrol	OGY	nyulic suil Pleselit: Yes Will V
rology		OGY	nyulic suil Present: Yes © NO C
arks: MED HYDRIC SOIL rology and Hydrology Indi	cators:	OGY I; check all that apply)	Secondary Indicators (minimum of two red
arks: MED HYDRIC SOIL rology and Hydrology Indicators (min Surface Water (A1)	icators: imum of one required		Secondary Indicators (minimum of two re
arks: MED HYDRIC SOIL rology and Hydrology Indi ary Indicators (min Surface Water (A1) High Water Table (A2	icators: imum of one required	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
arks: MED HYDRIC SOIL rology and Hydrology Indi ary Indicators (min Surface Water (A1) High Water Table (A2) Saturation (A3)	icators: imum of one required	l; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	icators: imum of one requirec	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	icators: imum of one requirec	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift deposits (B3)	icators: imum of one required)	I; check all that apply) Water-Stained Leaves (B9) (except MLRA1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift deposits (B3) Algal Mat or Crust (B4)	icators: imum of one required)	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C	Secondary Indicators (minimum of two red 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)
rology and Hydrology Indi ary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	icators: imum of one required) 2)	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two red 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)
rology and Hydrology Indi ary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E	icators: imum of one required) 2) 1)	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two red 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)
rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on	icators: imum of one required) 2) (1) (6) Aerial Imagery (B7)	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (minimum of two red 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)
rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on Sparsely Vegetated Co	icators: imum of one required 2) 2) 6) Aerial Imagery (B7) oncave Surface (B8)	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (minimum of two red 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)
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rology and Hydrology Indiary Indicators (min Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E1 Inundation Visible on Sparsely Vegetated Color (B4 Observations: Ice Water Present?	icators: imum of one required 2) 2) 66) Aerial Imagery (B7) oncave Surface (B8) Yes	I; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Secondary Indicators (minimum of two red) 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)
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Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES	Samplii	ng Date: 24-	Jun-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Point:	SP 39A
nvestigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, R	ange: S 9	T_21 S	R 10 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): flat		Slope:	0.0% / 0.0
Subregion (LRR): LRR A	region (LRR): LRR A Lat.: 43.7752				9	Datu	m: NAD83
oil Map Unit Name: 1444 Supriver sandy loam 0 to 3 per	D Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent slopes				:lassification:	PSSC/PEOA	
e climatic/hydrologic conditions on the site typical for this		? Yes	• No		in in Remark		
	significantly		Are "N	lormal Circumstand			No O
	naturally pro			eded, explain any a	-		
Summary of Findings - Attach site map sh	owing sa	mpling p	oint loc	ations, transe	ects, impo	ortant fea	atures, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area			
Hydric Soil Present? Yes No		withir	a Wetland	Yes No	\circ		
Wetland Hydrology Present? Yes No		Within	a wetland				
Remarks:							
OFF-SITE DETERMINATION							
VEGETATION - Use scientific names of plan	tc	Dominant					
VEGETATION - Ose scientific flames of plan	Absolute	_Species?	l dia a tau	Dominance Test	aultabaat.		
Tree Stratum (Plot size:	% Cover		Status				
1. Pinus contorta	5	100.0%	FAC	Number of Domina That are OBL, FAC		4	(A)
2	0	0.0%		Total Number of D	ominant		
3		0.0%		Species Across All		4	(B)
4		0.0%		Percent of domin	ant Species		
Sapling/Shrub Stratum (Plot size:	5	= Total Cove	er	That Are OBL, FA		100.0	0% (A/B)
1, Alnus incana		16.7%	FACW	Prevalence Index	worksheet:		
2. Salix exigua		83.3%	OBL	Total % Co		Multiply by:	
3		0.0%		OBL species		x 1 =	130
45.		0.0%		FACW species		x 2 =	60
J				FAC species		x 3 =	15 0
Herb Stratum (Plot size:	60	= Total Cove	er	FACU species	Λ	x 4 =	0
1 Carex aquatilis	80	४ 80.0%	OBL	UPL speci es		x 5 =	
2. Juncus balticus	20	20.0%	FACW	Column Totals:		(A)	205 (B)
3		0.0%		Prevalence I	ndex = B/A	= 1.24	12
4		0.0%		Hydrophytic Vege			
5		0.0%		✓ Dominance			
6	_	0.0%		✓ Prevalence			
7 8		0.0%			al Adaptation		
9		0.0%			n-Vascular Pl	•	c.,
10	0	0.0%			Hydrophytic		(Explain)
11.		0.0%			, ,	J	
	100	= Total Cove	er	¹ Indicators of hy be present, unle			
Woody Vine Stratum (Plot size:							
1		0.0%		Hydrophytic			
2				Vegetation	Yes ● No	, ()	
O/ Dave Consumed in Userla Characterists Co.	0	= Total Cove	er E	Present?	res ⊕ No	,	
% Bare Ground in Herb Stratum: 0							
Remarks:							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

ches)	Color (moist) %		<u> </u>
		Color (moist) % Type ¹ Loc ²	Texture Remarks
			_
e: C=Concent	tration. D=Depletion. RM=Redu	ced Matrix, CS=Covered or Coated Sand Grains ² L	ocation: PL=Pore Lining. M=Matrix
	cators: (Applicable to all LF	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils: ³
Histosol (A1) Histic Epipedo	on (A2)	Sandy Redox (S5) Stripped Matrix (S6)	☐ 2 cm Muck (A10) ☐ Red Parent Material (TF2)
Black Histic (A		Loamy Mucky Mineral (F1) (except in MLRA	
Hydrogen Sul	•	Loamy Gleyed Matrix (F2)	
•	ow Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Su		Redox Dark Surface (F6) Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Muck N	• •	Redox depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed	Matrix (S4) er (if present):	Nedox depressions (1.0)	anos distance of production
ype:	. (ii processiy)		
epth (inches)):		Hydric Soil Present? Yes No
rology and Hydrolo	ogy Indicators:		
-	ors (minimum of one require	ed; check all that apply)	Secondary Indicators (minimum of two red
Surface Water	` '	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
High Water T Saturation (A		Salt Crust (B11)	Drainage Patterns (B10)
Saluration (A	-,	Aquatic Invertebrates (B13)	☐ Dry Season Water Table (C2)
		Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Water Marks			
Water Marks Sediment De			
Water Marks Sediment De Drift deposits	s (B3)	Oxidized Rhizospheres on Living Roots (C3	Geomorphic Position (D2)
Water Marks Sediment De Drift deposits Algal Mat or	s (B3) Crust (B4)	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4)	3) Geomorphic Position (D2) Shallow Aquitard (D3)
Water Marks Sediment De	s (B3) Crust (B4) s (B5)	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
Water Marks Sediment Deposits Drift deposits Algal Mat or (Iron Deposits Surface Soil (s (B3) Crust (B4) s (B5)	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4)	3) Geomorphic Position (D2) Shallow Aquitard (D3)
Water Marks Sediment De Drift deposits Algal Mat or (Iron Deposits Surface Soil (Inundation V	s (B3) Crust (B4) s (B5) Cracks (B6)	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks Sediment Dep Drift deposits Algal Mat or (Iron Deposits Surface Soil (Inundation V Sparsely Veg	s (B3) Crust (B4) s (B5) Cracks (B6) lisible on Aerial Imagery (B7) letated Concave Surface (B8)	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks Sediment Deports Drift deposits Algal Mat or I Iron Deposits Surface Soil (I Inundation V Sparsely Veg	s (B3) Crust (B4) s (B5) Cracks (B6) lisible on Aerial Imagery (B7) letated Concave Surface (B8) cons: lesent? Yes No	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): 2	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks Sediment De Drift deposits Algal Mat or (Iron Deposits Surface Soil (Inundation V	s (B3) Crust (B4) s (B5) Cracks (B6) Visible on Aerial Imagery (B7) Jetated Concave Surface (B8) Cons: Sesent? Yes No	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
Water Marks Sediment Deporits Drift deposits Algal Mat or (Iron Deposits Surface Soil (Inundation V Sparsely Veg d Observation ace Water Pre	crust (B4) crust (B4) s (B5) Cracks (B6) lisible on Aerial Imagery (B7) letated Concave Surface (B8) cons: esent? Yes No cent? Yes No cent? Yes No cent? No cent? Yes No cent?	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Marks Sediment Deporits Algal Mat or (Iron Deposits Surface Soil (Inundation V Sparsely Veg d Observation ace Water Preser Table Preser ration Present udes capillary	s (B3) Crust (B4) s (B5) Cracks (B6) lisible on Aerial Imagery (B7) letated Concave Surface (B8) cons: lesent? Yes No let?	Oxidized Rhizospheres on Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Applicant/Covers: DESOUNTS COUNTY STADE Section, Township, Range: \$ 3	Investigator(s): ALISON SIGLER, SARAH HARTUNG Load relief (concave, convex, none): fix subregion (LRR): LRR A Lat.: 43.7772 Long.: -121.51	T 21 S R 10 E Slope: 0.0% / 0.0 Datum: NAD83
Local relief (concave, convex, none): figst Slope: 0.0% / 0.0 Subregion (LRRS): LRR A	Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): fig. Subregion (LRR): LRR A Lat: 43.7772 Long:: -121.51 Soil Map Unit Name: 29A: Cryaquolis, 0 to 3 percent slopes Now Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, exp Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstar Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any Summary of Findings - Attach site map showing sampling point locations, trans. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? Yes No No Is the Sampled Area within a Wetland? Yes No No No No No No No No	Slope: 0.0% / 0.0 Datum: NAD83
Subregion (IRR): RR A	Subregion (LRR): LRR A	42 Datum: NAD83
Soll Map Unit Name: 20A: Cryanguills, 0 to 3 percent slopes ver climatic/hydrologic conditions on the site typical for this time of year? Ver climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes Net are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	
Are Vegetation	Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	1 15 11 25112
Are Vegetation	Are vegetation	classification: PFMC/PSSC
Are Vegetation , Soil , or Hydrology anaturally problematic? 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, et Hydrophytic Vegetation Present? Yes No	Are Vegetation	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et	Summary of Findings - Attach site map showing sampling point locations, trans Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland? Yes No Wetland? Yes No Wetland? Yes No No Wetland? Yes No No Wetland? Yes No No No No No No No No No N	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et	Summary of Findings - Attach site map showing sampling point locations, trans Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Hydrophytic Vegetation Present. Yes No Hydrophytic Vegetation Present? Yes No Hydrophytic Vegetation Present. Yes No Hydrophytic Vegetatio	answers in Remarks)
Hydric Soil Present? Yes No No within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No Yes Yes Yes	No	
Hydric Soil Present? Yes	No	
No No No No No No No No	Wetland Hydrology Present? Yes	
Number of Dominant Species Number of Dom	Number of Dominance Testratum Plot size:	,
Tree Stratum (Plot size:)	Absolute Rel.Strat. Indicator Status Number of Dominance Tes	
Absolute Rel.Strat. Indicator Secure Status Status Secure Status Secure	Absolute Rel.Strat. Indicator Status Number of Dominance Tes	
That are OBL, FACW, or FAC: 3 (A) 2.	1	
2.	2. 0 0.0% Total Number of Species Across Al 4. 0 0.0% Percent of dom That Are OBL, 1. Alnus incana 10 19.6% FACW Prevalence Index Total % CO 2. Pinus contorta 1 2.0% FAC OBL speciles 3. Salix exigua 40 78.4% OBL OBL speciles 4. 0 0.0% FACW speciles 5. 0 0.0% FAC speciles FAC speciles FACU speciles FACU speciles UPL speciles UPL speciles Col umn Total s 2. Poa sp. 20 20.0% FAC 3. 0 0.0% Hydrophytic Very 5. 0 0.0% Hydrophytic Very 5. 0 0.0% Prevalence 6. 0 0.0% Morpholog data in Rei 9. 0 0.0% Morpholog data in Rei 0 0.0% Wetland N	
3	Species Across Algorithm Species Across Algorithm Sapling/Shrub Stratum (Plot size:)	Dominant
Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	Description	•
That Are OBL, FACW, or FAC: 100.0% (A/B)	Sapling/Shrub Stratum (Plot size:] That Are OBL, 1, Alnus incana 10 19.6% FACW Prevalence Index Total % CO	inant Species
2. Pinus contorta 3. Salix exigua 40	2. Pinus contorta 1 2.0% FAC Total % C 3. Salix exigua 40 ✓ 78.4% OBL OBL speciles 4. 0 0.0% FACW speciles 5. 0 0.0% FAC speciles FACU speciles Learex aquatilis 80 ✓ 80.0% OBL 2. Poa sp. 20 ✓ 20.0% FAC 3. 0 0.0% Prevalence 4. 0 0.0% Hydrophytic Verence 5. 0 0.0% Hydrophytic Verence ✓ Prevalence 7. 0 0.0% Morpholog data in Reference 9. 0 0.0% Wetland N	
3. Salix exigua 4.	3. Salix exigua 4.	ex worksheet:
4.	4.	over of: Multiply by:
Description	5.	
Herb Stratum (Plot size:)	Herb Stratum (Plot size:)	
Herb Stratum (Plot size:)	Herb Stratum (Plot size:)	
1 Carex aquatilis	1 Carex aquatilis 2 Poa sp. 20	× + =
2 20 20.0% FAC FAC Prevalence Index = B/A = 1.344 4	2. Fod sp. 20	x 5 =
4.	4.	151 (A) 203 (B)
Solution Stratum St	5.	Index = B/A =
6	6.	-
7.	7.	
Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 9.	8.	Index is ≤3.0 ¹
9.	9 0 0.0%	
10	0 00%	·
11	IU Problemati	
Woody Vine Stratum (Plot size:) 1,	11	
1. 0 0.0% Hydrophytic 2. 0 0.0% Vegetation Yes ● No ○	be present, unl	
2 O O0% Hydrophytic Vegetation Present? Yes ● No ○		
0 = Total Cover Vegetation Present? Yes ● No ○		
	Vegetation	Vac A Na C
% Bare Ground in Herb Stratum: ()		yes ♥ No ∪
	% Bare Ground in Herb Stratum: 0	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth	Matrix	Redox Features	
ches) Co	olor (moist) %	Color (moist) % Type ¹ Loc	2 Texture Remarks
			-
e: C=Concentrat	ion D=Depletion RM=Reduc	ed Matrix, CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining. M=Matrix
	•	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A1)	ors. (Applicable to all ER	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon ((A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	,	Loamy Mucky Mineral (F1) (except in MLR.	
Hydrogen Sulfide	e (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below	Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surfa	ce (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Muck Mine		Depleted Dark Surface (F7) Redox depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Ma		Redux depressions (F6)	unless disturbed of problematic.
trictive Layer (i	f present):		
Гуре:			
			Hydric Soil Procont2 Voc (8) No (
marks:	YDRIC BY SATURATION		Hydric Soil Present? Yes No
narks: .S ASSUMED H	YDRIC BY SATURATION		Hydric Soil Present? Yes ● No ○
narks: .S ASSUMED HY			Hydric Soil Present? Yes ● No ○
narks: S ASSUMED HY Arology land Hydrology	/ Indicators:	d: check all that annly)	
narks: S ASSUMED H Irology land Hydrology nary Indicators	r Indicators: (minimum of one require		Secondary Indicators (minimum of two req
Irology land Hydrology nary Indicators Surface Water (r Indicators: (minimum of one required	d; check all that apply) Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2,
Irology land Hydrology nary Indicators Surface Water (a	r Indicators: (minimum of one required	Water-Stained Leaves (B9) (except MLR/ 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Irology Iand Hydrology nary Indicators Surface Water (a.) High Water Table Saturation (A3)	r Indicators: (minimum of one required A1) le (A2)	Water-Stained Leaves (B9) (except MLR/ 1, 2, 4A, and 4B) Salt Crust (B11)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Iand Hydrology Iand Hydrology Indicators Surface Water (All) High Water Table Saturation (A3) Water Marks (B*	r Indicators: (minimum of one required A1) le (A2)	☐ Water-Stained Leaves (B9) (except MLRand, 2, 4A, and 4B) ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Irology Iand Hydrology Iand Hydrology Indicators Surface Water (All) High Water Table Saturation (A3) Water Marks (B') Sediment Depos	r Indicators: (minimum of one required A1) le (A2) I) its (B2)	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydrology Iand Hydrology Indicators Surface Water (Aligh Water Table) Saturation (A3) Water Marks (B') Sediment Deposits (B')	r Indicators: (minimum of one required A1) le (A2) l) its (B2) 3)	Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Secondary Indicators (minimum of two req 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)
Irology Iand Hydrology Iand Hydrology Iand Hydrology Iand Hydrology Indicators Surface Water (I High Water Table Saturation (A3) Water Marks (B' Sediment Depos Drift deposits (B Algal Mat or Cru	r Indicators: (minimum of one required A1) le (A2) I) iits (B2) 3) st (B4)	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two req 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)
cland Hydrology nary Indicators Surface Water (A) High Water Tabl Saturation (A3) Water Marks (B' Sediment Depos Drift deposits (B) Algal Mat or Cru Iron Deposits (B)	r Indicators: (minimum of one required A1) de (A2) 1) dits (B2) 3) st (B4)	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two req 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)
Arology Iland Hydrology Iland Hydrolog	r Indicators: (minimum of one required A1) le (A2) I) sits (B2) 3) st (B4) 155) cks (B6)	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (minimum of two req 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)
Irology Indicators Surface Water (A) High Water Tabl Saturation (A3) Water Marks (B) Sediment Deposits (B) Algal Mat or Cru Iron Deposits (B) Surface Soil Crai	r Indicators: (minimum of one required A1) le (A2) l) sits (B2) 3) st (B4) l5) cks (B6) le on Aerial Imagery (B7)	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two requals of the secondary Indicators (minimum of two requals of the secondary Indicators (minimum of two requals of the secondary Indicators (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)
Irology Iand Hydrology Iand Hydrology Iand Hydrology Indicators Surface Water (A.) High Water Table Saturation (A3) Water Marks (B.) Sediment Deposits (B.) Algal Mat or Cru Iron Deposits (B.) Surface Soil Crai Inundation Visib Sparsely Vegeta	r Indicators: (minimum of one required A1) le (A2) I) sits (B2) 3) st (B4) 155 cks (B6) le on Aerial Imagery (B7) ted Concave Surface (B8)	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (minimum of two req 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)
Arology Iland Hydrology Iland High Water Table Saturation (A3) Water Marks (B' Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Crai Ilnundation Visib Sparsely Vegeta	r Indicators: (minimum of one required A1) le (A2) I) iits (B2) 3) st (B4) 5) cks (B6) le on Aerial Imagery (B7) ted Concave Surface (B8) :	Water-Stained Leaves (B9) (except MLR, 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (minimum of two req 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)
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Investigator(s): ALISON SIGLER, SARAH HARTUNG Section, Township, Range: \$ 3	Project/Site: DESCHUTES LWI	City	/County: S	JNRIVER/D	DESCHUTES	Sampling	g Date: 24-Ju	ın-10
Local relief (concave, convex, none):	Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	ling Point:_	SP 41A
Subregion (RR0): LRR A	Investigator(s): ALISON SIGLER, SARAH HARTUNG	Se	ection, Tow	nship, Ra	inge: S 3	T_21 S	R _10 E	
Soil Map Unit Name: _29A. Creaguells .0 to 3 percent slobes we climatic/hydrologic conditions on the site typical for this time of year?	Landform (hillslope, terrace, etc.): Floodplain	Loc	cal relief (c	oncave, c	onvex, none): flat		Slope:	0.0% / 0.0
About Secure S	Subregion (LRR): LRR A	Lat.: 43.783	34		Long.: -121.5141		Datun	n: NAD83
Tree stratum Plot size:	Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes				NWI cla	assification:	 PEMA/PSSC/	PFOA
Are Vegetation		time of year?	Yes	● No C				
Summary of Findings - Attach site map showing sampling point locations, transects, important features, Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No No Present? Yes No Wetland Hydrology	Are Vegetation , Soil , or Hydrology s	ignificantly dist	urbed?	Are "No	ormal Circumstance	s" present?	Yes	NO
Summary of Findings - Attach site map showing sampling point locations, transects, important features, Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No No Present? Yes No Wetland Hydrology	Are Vegetation Soil or Hydrology n	aturally probler	matic?	(If nee	ded explain any an	swers in Rer	narks)	
No	3 — , — , 3 — 3	3.		-			•	tures, et
Hydric Soil Present? Yes	Hydrophytic Vegetation Present? Yes No							
Note	Hydric Soil Present? Yes ● No ○		Is the S	ampled A				
Name	Wetland Hydrology Present? Yes No		within a	Wetland	? Yes S NO			
Absolute	OFF-SITE DETERMINATION	rc D	ominant					
Tree Stratum Plot size:	VEGETATION - Ose scientific names of plant	S _I	pecies?					
1	Tree Stratum (Plot size:							
2. 0 0.0% 10.0%<	1.	0	0.0%				4	(A)
Sapling/Shrub Stratum (Plot size: 0		0	0.0%					
Sapling/Shrub Stratum (Plot size:	3		0.0%				4	(B)
Sapling/Shrub Stratum (Plot size:	4	_ 0	0.0%		Dersont of domina	nt Cnadica		
2_Salix exigua 30	Sapling/Shrub Stratum (Plot size:	0 = T	Total Cover				100.0	% (A/B)
3.	1, Alnus incana			ACW	Prevalence Index v	worksheet:		
4.				OBL	Total % Cov			
5.					•			
Herb Stratum (Plot size:)					•			
Herb Stratum (Plot size:)	J				•			_
1. Carex aquatilis 80	Herb Stratum (Plot size:)	= I	lotal Cover				4 =	
2 Poa sp. 20	1 Carex aquatilis	80	80.0%	OBL	•	x	(b =	
4.	2 Poa sp.	_20 🗸	20.0%	AC	Column Totals:		(A)	90 (B)
10.	3				Prevalence In	dex = B/A =	1.35	7
6.	1							
7.								
8. O O.0% data in Remarks or on a separate sheet) 9. O O.0% Wetland Non-Vascular Plants¹ 10. O O.0% 11. O O.0% 100 = Total Cover Woody Vine Stratum (Plot size:) 1. O O.0% 2. O O.0% 0 O.0% 1 Indicators of hydric soil and wetland hydrology metabolic be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No O							_	
9.	1		0.0%					
11	9		0.0%				•	•
100 Total Cover 1 Indicators of hydric soil and wetland hydrology me be present, unless disturbed or problematic. 1	10				Problematic F	lydrophytic \	/egetation ¹	(Explain)
Woody Vine Stratum (Plot size:) 1	11.				¹ Indicators of hydr	ric soil and w	etland hydr	ology must
1. 0 0.0% Hydrophytic 2. 0 0.0% Vegetation Vegetation Present? Yes ● No ○	Woody Vine Stretum (Diet size)	100 = I	lotal Cover					
2. O O O O O O O O O O O O O O O O O O O		o 🗆	0.00%					
					Hydrophytic			
Tresent.	<u> </u>				Vegetation	es 💿 No	0	
70 bar Growing in Herb Stratum. ()	% Rare Ground in Herh Stratum: 0		otal oovel		Present?	JJ - 140	_	
Remarks:								

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth	ption: (Describe to the depth Matrix	Redox Features	
iches)	Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
			-
			_
		· —— — — — — —	
	· · · · · · · · · · · · · · · · · · ·		Location: PL=Pore Lining. M=Matrix
		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A	•	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epip		Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except in MLRA	Red Parent Material (TF2)
Black Histi	Sulfide (A4)	Loamy Gleyed Matrix (F2)	1) Other (Explain in Remarks)
	Below Dark Surface (A11)	Depleted Matrix (F3)	
	Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
	ck Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
•	yed Matrix (S4)	Redox depressions (F8)	unless disturbed or problematic.
trictive La	yer (if present):		
Гуре:			
			Hydria Soil Brosont? Vac (Na ()
narks:	es):ED HYDRIC BY SATURATION		Hydric Soil Present? Yes No
narks: .S ASSUM	ED HYDRIC BY SATURATION		Hydric Soil Present? Yes © No O
narks: S ASSUM	ED HYDRIC BY SATURATION		Hydric Soil Present? Yes © No
narks: .S ASSUM drology	ED HYDRIC BY SATURATION		
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narks: S ASSUM Irology Iand Hydinary Indic Surface W	ED HYDRIC BY SATURATION rology Indicators: ators (minimum of one requiater (A1)		Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2,
Arology Iand Hydinary Indic	FOLOGY Indicators: ators (minimum of one requirer (A1)	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
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Project/Site: DESCHUTES LWI	City/County: SUNRIVER	/DESCHUTES Sampling Date: 24-Jun-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 42A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township, R	tange: S 35 T 20 S R 10 E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave,	convex, none): Slope: /0.0
Subregion (LRR): LRR A	Lat.: 43.8046	Long.: -121.4956 Datum: NAD83
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		NWI classification: PEMA
e climatic/hydrologic conditions on the site typical for this	time of year? Yes No	_
	•	Normal Circumstances" present? Yes No
		eded, explain any answers in Remarks.)
-		
Summary of Findings - Attach site map sho	owing sampling point loc	cations, transects, important features, et
Hydrophytic Vegetation Present? Yes No No	Is the Sampled	Area
Hydric Soil Present? Yes No No	within a Wetlan	Van (Na (
Wetland Hydrology Present? Yes No	within a wetian	u:
Remarks:		
VEGETATION - Use scientific names of plan	ts Dominant	
VEGETATION - Ose scientific flames of plan	Species?	Daning and Task weetleback
Tree Stratum (Plot size:	Absolute Rel.Strat. Indicator % Cover Cover Status	
1. Pinus contorta	50 ✓ 100.0% FAC	Number of Dominant Species That are OBL, FACW, or FAC:3(A)
2	0 0.0%	Total Number of Dominant
3		Species Across All Strata: 4 (B)
4	0 0.0%	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	50 = Total Cover	That Are OBL, FACW, or FAC: 75.0% (A/B)
1. Rosa gymnocarpa	0	Prevalence Index worksheet:
2. Salix exigua	20 🗹 100.0% OBL	Total % Cover of: Multiply by:
3		OBL species 20 x 1 = 20
4	0 0.0%	FACW species $0 \times 2 = 0$
5	0 0.0%	FAC species60 x 3 =180
Herb Stratum (Plot size:	= Total Cover	FACU speciles $\frac{5}{}$ x 4 = $\frac{20}{}$
1 Fragaria virginiana	5 🗹 33.3% FACU	UPL species $\frac{0}{}$ x 5 = $\frac{0}{}$
2 Trifolium repens	10 ✓ 66.7% FAC	Column Totals: <u>85</u> (A) <u>220</u> (B)
3		Prevalence Index = B/A = 2.588
4	0 0.0%	Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6		Prevalence Index is ≤3.0 ¹
7.————————————————————————————————————		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9		Wetland Non-Vascular Plants ¹
10		Problematic Hydrophytic Vegetation ¹ (Explain)
11		
T	15 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		
1		Hydrophytic
2	0 0.0%	Hydrophytic Vegetation Present? Yes No
	0 = Total Cover	Present? Yes No
% Bare Ground in Herb Stratum: 85		
% Bare Ground in Herb Stratum: 85 Remarks: "Bare ground" was duff/leaf litter.		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Depth		Matrix			Redo	x Featu	res			
inches)	Color (n	noist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-3	10YR	3/2	100%						Loam	
3-6	10YR	5/1	90%	10YR	3/4	10%	С	М	Loam	
6-8	10YR	8/2	80%	10YR	5/6	20%	С	M	Clay Loam	
8-20	10YR	7/2	60%	10YR	5/6	40%	С	M	Loamy Sand	
e: C=Cond	centration. D=	=Depletion.	. RM=Redu	ced Matrix,	CS=Covered	d or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining.	M=Matrix
	ndicators: ((Applicabl	le to all LF			-				oblematic Hydric Soils:3
Histosol (A	A1) Dedon (A2)				ndy Redox (S ipped Matrix				2 cm Muck (A	·
Black Hist					amy Mucky M		1) (excent i	n MI RA 1)	Red Parent Ma	
	Sulfide (A4)				amy Gleyed N				Other (Explain	i iii Keillaiks)
, ,	Below Dark S	urface (A1	1)		pleted Matrix					
•	k Surface (A1:	•	•	Red	dox Dark Sur	face (F6)			³ Indicators of hydro	phytic vegetation and
Sandy Mu	ck Mineral (S	1)		☐ De	pleted Dark S	Surface (F	- 7)		wetland hydrolog	yy must be present,
Sandy Gle	eyed Matrix (S	4)		Red	dox depression	ons (F8)			unless disturbed	or problematic.
trictive La	ayer (if pres	ent):								
Туре:										
									Hydric Soil Present	t? Yes 💿 No 🔾
Depth (incl marks:	hes):									
marks:										
marks:		eators:								
marks: drology	1		ne require	ed; check	all that app	oly)_			Secondary I	Indicators (minimum of two rec
drology tland Hyd nary Indic Surface V	rology Indic cators (minin Vater (A1)		ne require	v	Vater-Stained	d Leaves	(B9) (excep	ot MLRA	☐ Water-St	Indicators (minimum of two rec ained Leaves (B9) (MLRA 1, 2,
drology land Hyd nary Indio Surface V High Wat	rology Indic cators (minii Vater (A1) er Table (A2)		ne require	□ v	Vater-Stained , 2, 4A, and	d Leaves 4B)	(В9) (ехсер	ot MLRA	Water-St 4A, and 4	ained Leaves (B9) (MLRA 1, 2, 4B)
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drology tland Hyd mary Indio Surface W High Wate Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundation Sparsely W Id Observed	y Irology Indic cators (minin Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) foil Cracks (B6 on Visible on A Vegetated Col ations: Present?	mum of o) Aerial Imag ncave Surfa Yes Yes	ery (B7) ace (B8) No (□ V 1 □ S □ A □ H □ C □ P □ S □ V C	Vater-Stained, 2, 4A, and isalt Crust (B1 equatic Inverted ydrogen Sultoxidized Rhizeresence of Recent Iron Retunted or Strother (Explain Depth (inched Depth (inched page), 2, 44, 45, 46, 46, 47, 47, 47, 47, 47, 47, 47, 47, 47, 47	d Leaves 4B) 11) tebrates (fide Odor ospheres teduced li Reduction ressed Plan in Rema	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	Roots (C3) pills (C6) LRR A)	Water-St 4A, and 4 □ Drainage □ Dry Seas ✓ Saturatio □ Geomorp □ Shallow A □ FAC-neut □ Raised Ai □ Frost Hea	ained Leaves (B9) (MLRA 1, 2, 4B) Patterns (B10) on Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Aquitard (D3) Itral Test (D5) Int Mounds (D6) (LRR A) Interview Hummocks (D7)
drology tland Hyd mary Indic Surface W High Wat Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely Id Observat face Water ter Table Pouration Prescues capill	rology Indicators (mining Vater (A1) er Table (A2) er Table (A2) er Table (B3) er Crust (B4) exists (B5) er Crust (B5) e	num of o O Aerial Imag ncave Surf: Yes Yes Yes	ery (B7) ace (B8) No (O) No (O) No (O)	V 1 S	Vater-Stained, 2, 2, 4A, and salt Crust (B1 equatic Inverted of Recent Iron Recent Iron Restunted or State (Explain Depth (inched Depth (inched Depth (inched Depth (inched Recent Iron Recent Iron Restunted or State (Explain Depth (inched Depth (inched Depth (inched Recent Iron Recent Iron Restunted or State (Explain Depth (inched Depth (inched Recent Iron Recent I	d Leaves 4B) 11) tebrates (fide Odor ospheres deduced In Reduction ressed Pla n in Rema	(B13) (C1) on Living Fron (C4) in Tilled Scants (D1) (I	Roots (C3) pils (C6) LRR A) Wetla	Water-St 4A, and 4 □ Drainage □ Dry Seas ✓ Saturatio □ Geomorp □ Shallow A □ FAC-neut □ Raised Aa □ Frost Hea	ained Leaves (B9) (MLRA 1, 2, 4B) Patterns (B10) on Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Aquitard (D3) Itral Test (D5) Int Mounds (D6) (LRR A) Interview Hummocks (D7)
drology etland Hyd mary India Surface W High Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely eld Observation Precludes capill	Irology Indicators (minimal vater (A1) er Table (A2) in (A3) arks (B1) in Deposits (B2) or Crust (B4) osits (B5) in Visible on A Vegetated Collations: Present? Present?	num of o O Aerial Imag ncave Surf: Yes Yes Yes	ery (B7) ace (B8) No (O) No (O) No (O)	V 1 S	Vater-Stained, 2, 2, 4A, and salt Crust (B1 equatic Inverted of Recent Iron Recent Iron Restunted or State (Explain Depth (inched Depth (inched Depth (inched Depth (inched Recent Iron Recent Iron Restunted or State (Explain Depth (inched Depth (inched Depth (inched Recent Iron Recent Iron Restunted or State (Explain Depth (inched Depth (inched Recent Iron Recent I	d Leaves 4B) 11) tebrates (fide Odor ospheres deduced In Reduction ressed Pla n in Rema	(B13) (C1) on Living Fron (C4) in Tilled Scants (D1) (I	Roots (C3) pils (C6) LRR A) Wetla	Water-St 4A, and 4 □ Drainage □ Dry Seas ✓ Saturatio □ Geomorp □ Shallow A □ FAC-neut □ Raised Aa □ Frost Hea	ained Leaves (B9) (MLRA 1, 2, 4B) Patterns (B10) on Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Aquitard (D3) Itral Test (D5) Int Mounds (D6) (LRR A) Interview Hummocks (D7)

Project/Site: DESCHUTES LWI	Cit	ty/County:_	SUNRIVER/I	DESCHUTES	Sampling	g Date: 25-J	un-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	ling Point:_	SP 43A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, Ra	ange: S 35	T 20 S	R 10 E	
Landform (hillslope, terrace, etc.): Floodplain	L	_ocal relief (concave, o	convex, none): flat		Slope:	0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.7	7995		Long.: -121.5009		Datun	n: NAD83
Soil Map Unit Name: Not available					assification:		
re climatic/hydrologic conditions on the site typical for this	time of year?	Yes	• No C)	
Are Vegetation, Soil, or Hydrology	significantly di			lormal Circumstance		Yes •	No O
	-				-		
	naturally probl		•	eded, explain any ar		•	
Summary of Findings - Attach site map sh	nowing sam	npling po	oint loca	ations, transe	cts, impo	rtant fea	tures, et
Hydrophytic Vegetation Present? Yes No O		Is the	Sampled A	\rea			
Hydric Soil Present? Yes No			a Wetland	Vac (No (\supset		
Wetland Hydrology Present? Yes No		within	a wettand	1,			
Remarks:							
OFF-SITE DETERMINATION							
VEGETATION - Use scientific names of plan	nts.	Dominant Species? =					
Tree Stratum (Plot size:		Rel.Strat. Cover	Indicator Status	Dominance Test v	vorksheet:		
1		0.0%		Number of Dominar That are OBL, FACV	•	2	(A)
2,	_	0.0%					
3		0.0%		Total Number of Do Species Across All S		2	(B)
4	0	0.0%					
Sapling/Shrub Stratum (Plot size:	0 =	Total Cove	r	Percent of domin That Are OBL, FA		100.0	% (A/B)
1, Salix exigua	60	8 5.7%	OBL	Prevalence Index	worksheet:		
2, Alnus incana	10	14.3%	FACW	Total % Cov	ver of: N	Multiply by:	
3		0.0%		OBL speci es	130x	1 =1	30
4 5.		0.0%		FACW species			60
J	0	0.0%		FAC species		. •	0
Herb Stratum (Plot size:	=	Total Cove	r	FACU species		4 =	0
1 Carex aquatilis	70	7 3.7%	OBL	UPL speci es		b =	
2 Juncus sp.	15	15.8%	FACW	Column Totals:		A)2	(B)
3 Taraxacum officinale	5	5.3%	FACU	Prevalence Ir	ndex = B/A =	1.27	3
4. Ranunculus sp.		5.3%	FACW	Hydrophytic Vege	tation Indica	ors:	
5		0.0%		✓ Dominance T			
6		0.0%		✓ Prevalence I	ndex is ≤3.0 ¹		
7	_ [0.0%		Morphologica			
8.——9		0.0%		data in Rema		•	et)
10.		0.0%		Wetland Non			(F
11	_ [0.0%		Problematic		· ·	• •
	95 =	Total Cove	r	¹ Indicators of hyd be present, unles			
Woody Vine Stratum (Plot size:	_	_		. ,		-	
1,		0.0%					
2		0.0%		Hydrophytic Vegetation		\bigcirc	
	=	Total Cove	r	Present?	es 💿 No	\cup	
% Bare Ground in Herb Stratum: ()							
76 Bare Ground III Herb Stratum. 0							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil					Sampling Point: 43A	
Profile Descri	ption: (Describe to the de	oth needed to document th	e indicator or con	firm the	absence of indicators.)	
Depth	Matrix	_	Features			
(inches)	Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture Remarks	_
1Type: C=Conc	entration D=Depletion RM=I	Reduced Matrix, CS=Covered o	r Coated Sand Grain	ns ² l oca	ation: PL=Pore Lining. M=Matrix	
J.	· · · · · · · · · · · · · · · · · · ·	II LRRs, unless otherwise n		2000	Indicators for Problematic Hydric Soils:3	
Histosol (A		Sandy Redox (S5)	otea.)		2 cm Muck (A10)	
Histosof (A	•	Stripped Matrix (S	6)		Red Parent Material (TF2)	
Black Histi			eral (F1) (except in	MLRA 1)	✓ Other (Explain in Remarks)	
	Sulfide (A4)	Loamy Gleyed Ma		,	• Other (Explain in Remarks)	
	Below Dark Surface (A11)	Depleted Matrix (I	⁼ 3)			
Thick Dark	Surface (A12)	Redox Dark Surfa	ce (F6)		³ Indicators of hydrophytic vegetation and	
Sandy Mud	ck Mineral (S1)	Depleted Dark Sur			wetland hydrology must be present,	
Sandy Gle	yed Matrix (S4)	Redox depression	s (F8)		unless disturbed or problematic.	
Restrictive La	yer (if present):					
Type:						
Depth (inch	nes):				Hydric Soil Present? Yes ● No ○	
Remarks:	-					
SOILS ASSUM	ED HYDRIC BY SATURATION	ON				
						_
Hydrology	1					
	ology Indicators:					_
,	55	quired; check all that apply)		Secondary Indicators (minimum of two requi	red
☐ Surface W			_ eaves (B9) (except	MIRA	Water-Stained Leaves (B9) (MLRA 1, 2,	
	er Table (A2)	1, 2, 4A, and 4B		WILIO	4A, and 4B)	
✓ Saturation		Salt Crust (B11)			Drainage Patterns (B10)	
Water Ma	• •	Aquatic Inverteb			Dry Season Water Table (C2)	
	Deposits (B2)	Hydrogen Sulfid				
Drift depo		_ , ,	oheres on Living Ro	oto (C2)	Saturation Visible on Aerial Imagery (C9)	
				018 (63)	Geomorphic Position (D2)	
	or Crust (B4)	☐ Presence of Red		(0.1)	Shallow Aquitard (D3)	
☐ Iron Depo	• •		uction in Tilled Soils		FAC-neutral Test (D5)	
	oil Cracks (B6)	. –	sed Plants (D1) (LR	R A)	Raised Ant Mounds (D6) (LRR A)	
	n Visible on Aerial Imagery (B		n Remarks)		Frost Heave Hummocks (D7)	
	/egetated Concave Surface (B	8)				
Field Observa	itions:					
Surface Water		lo Depth (inches)):			
		. 🔘				
Water Table Pr):	Wetla	and Hydrology Present? Yes No	
Saturation Pres (includes capill	VAC (T) N	Depth (inches)): 0	wetia	ind Hydrology Present: 103 9 110 9	
		monitor well, aerial photos	s, previous inspec	tions), if	available:	
Aerial photo	, 5 5					
Remarks:						
	SEEN WITH BINOCULARS					
SATURATION	CLIN WITH DINOCOLANG					

Soil Map Unit Name: Not available Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	City/County: SUNRIVER/DESCHUTES Sampling Date: 25-Jun-10
Subregion (LRR): LRR	State: OR Sampling Point: SP 45A
Subtregion (LRR): _ LRR A	Section, Township, Range: S 26 T 20 S R 10 E
Soll Map Unit Name: Not available via climatic Phydrology is gignificantly disturbed? Are Vegetation	Local relief (concave, convex, none): CONCAVE Slope: 0.0% / 0.0
re climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Lat.: 43.8094 Long.: -121.4946 Datum: NAD83
re climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 fe Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No No Is the Sampled Area within a Wetland? Yes No No Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No No No No No No No	NWI classification: PSSC
Are Vegetation	ime of year? Yes No (If no, explain in Remarks.)
Summary of Findings - Attach site map showing sampling point locations, transects, important fe Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wettand Hydrology Present Indicators Yes No Wettand Nor-Vascular Plants' Prevalence Index is \$3.0 Morphological Adaptations' (Provided data in Remarks or on a separate show the present, unless disturbed or problematic Hydrolyptic Vegetation Wedody Vine Stratum (Plot size:) 1.	ignificantly disturbed? Are "Normal Circumstances" present? Yes No
Hydrophytic Vegetation Present? Yes	aturally problematic? (If needed, explain any answers in Remarks.)
Sampled Area Within a Wetland Processing No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Presents Yes No Wetland Nor-Vascular Plants Yes Yes No North Yes Yes No North Yes Yes No North Yes Yes No North Yes	owing sampling point locations, transects, important features, et
Hydric Soil Present? Yes	
No No No No No No No No	Van (Na (
VEGETATION - Use scientific names of plants. Dominant Species? Tree Stratum (Plot size:] Absolute Species? Rel.Strat. Total Cover Status Number of Dominant Species That are OBL, FACW, or FAC:	within a Wetland?
VEGETATION - Use scientific names of plants.	
Name	
Name	
Absolute Rel. Strat. Indicator Cover Status Number of Dominance Test worksheet:	S. Dominant
1	Absolute Rel.Strat. Indicator Dominance Test worksheet:
2	Number of Dominant Species
3.	That die OBE, Thou, of The.
Sapling/Shrub Stratum (Plot size:)	1 Otal Number of Dominant
Sapling/Shrub Stratum (Plot size: 100	0 0.0%
2. Salix exigua 15 ✓ 75.0% OBL Total % Cover of: Multiply by: OBL species Multiply by: OBL species 15 x 1 = 4. 0 0.0% FACW species 90 x 2 = 5. 0 0.0% FACW species 90 x 2 = FAC species 0 x 3 = FAC species 0 x 4 = UPL species 0 x 5 = FACU species 0 x 5 = UPL species 0 x 5 = <t< td=""><td></td></t<>	
3.	5
4.	15
5 .	
Herb Stratum (Plot size:) 20	O O O O O O O O O O O O O O O O O O O
Herb Stratum	rac species x 3 =
1 Carex sp. 75 ✓ 88.2% FACW 2 Phalaris arundinacea 10 11.8% FACW 3 0 0.0% Prevalence Index = B/A = 1.8 4. 0 0.0% Hydrophytic Vegetation Indicators: 5. 0 0.0% Prevalence Index is ≤ 3.0¹ 7. 0 0.0% Prevalence Index is ≤ 3.0¹ 9. 0 0.0% Morphological Adaptations¹ (Provide data in Remarks or on a separate shear of the provided data in Remarks o	
2 Phalaris arundinacea	75 88.2% FACW OPL Species — x 5 = ——
4.	
10.	
6.	mydrophytic vegetation mulcators:
7.	Dominance rest is > 30%
8.	0 0.0%
9.	- I I I I I I I I I I I I I I I I I I I
11	0 0.0%
Woody Vine Stratum (Plot size:) 1 Indicators of hydric soil and wetland hydrophytic be present, unless disturbed or problema 1	
Woody Vine Stratum (Plot size:) 1. 0 0.0% Hydrophytic Vegetation	Indicators of hydric soil and wotland hydrology must
1. 0 0.0% Hydrophytic Vegetation	be present, unless disturbed or problematic.
2. Hydrophytic Vegetation	0 000
Vegetation Veg	
	Vegetation Vegetation
% Bare Ground in Herb Stratum: 0	
Remarks: Carex sp. assumed to be FACW.	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Profile Description: (Describe to the depth needed to document the indicator or confined popular in the indicator of confined popular in the indicator of confined popular indicator of co	firm the absence of indicators.) Loc² Texture Remarks
Deptil	Loc ² Texture Remarks
(inches) Color (moist) % Color (moist) % Type	Loc2 Texture Remarks
ype: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains	ns ² Location: PL=Pore Lining. M=Matrix
lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except in N	MLRA 1)
☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	
Thick Dark Surface (A12) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Muck Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
ydrology	
/etland Hydrology Indicators:	Casas dans Indicators (minimum of the arms)
rimary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two requi
☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) (except №	
High Water Table (A2)	4A, and 4B)
Saturation (A3)	Drainage Patterns (B10)
Water Marks (B1) Aquatic Invertebrates (B13)	Dry Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3) Oxidized Rhizospheres on Living Roo	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)	Frost Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
eld Observations:	
ield Observations:	
ield Observations: urface Water Present? Yes No Depth (inches):	
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Field Observations: Surface Water Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes ● No ○
ield Observations: urface Water Present? Yes No Depth (inches): Jater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): De	
ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): Depth (inches): Depth (inches): O	
ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes Water Present? Yes No Depth (inches): urface Water Present? Yes Wate	
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Urface Water Present?	

Project/Site: DESCHUTES LWI	City/County: SUP	IRIVER/DESCHUTES Sampling Date: 25-Jun-	-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point:	SP 46A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Town	ship, Range: \$ 26 T 20 S R 10 E	_
Landform (hillslope, terrace, etc.): Floodplain	Local relief (cor	ncave, convex, none): flat Slope: 0.	.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.8094	Long.: -121.4946 Datum:	NAD83
Soil Map Unit Name: Not available		NWI classification: PEMC	
Are Vegetation . , Soil . , or Hydrology Summary of Findings - Attach site map sh	significantly disturbed?	(If needed, explain any answers in Remarks.)	No ○ ures, et
Hydrophytic Vegetation Present? Yes ● No ○	Is the Sar	npled Area	
Hydric Soil Present? Yes ● No ○		Vac (No (
Wetland Hydrology Present? Yes ● No ○	within a V	vetiand?	
Remarks: OFF-SITE DETERMINATION VEGETATION - Use scientific names of plan	Species?		
Tree Stratum (Plot size:	Absolute Rel.Strat. Inc % Cover Cover Sta	licator Dominance Test worksheet:	
1	0 0.0%	Number of Dominant Species That are OBL, FACW, or FAC: 1	(A)
2			
3,	0	Total Number of Dominant Species Across All Strata: 1	(B)
4	0		
Sapling/Shrub Stratum (Plot size:	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0%	(A/B)
1,	0	Prevalence Index worksheet:	
2		Total % Cover of: Multiply by:	
3		0BL speci es 0 x 1 = 0	_
4		FACW species x 2 =	
5		FAC species $\frac{10}{2}$ x 3 = $\frac{30}{2}$	_
Herb Stratum (Plot size:	0 = Total Cover	FACU species $0 \times 4 = 0$	_
1 Carex sp.	65 🗹 76.5% FA	UPL species $\frac{0}{x}$ x 5 = $\frac{0}{x}$	_
2 Poa sp.	10	Column Totals 85 (A) 180	(B)
3 Juncus sp.	10 🗌 11.8% FA	CW Prevalence Index = B/A = 2.118	_
4	0	Hydrophytic Vegetation Indicators:	
5	0	✓ Dominance Test is > 50%	
6		Prevalence Index is ≤3.0 ¹	
7		Morphological Adaptations ¹ (Provide su	
8.		data in Remarks or on a separate sheet)	
9		Wetland Non-Vascular Plants ¹	
11.		Problematic Hydrophytic Vegetation ¹ (E	xplain)
	85 = Total Cover	¹ Indicators of hydric soil and wetland hydrole be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:	0		
1 2	0 0.0%	Hydrophytic	
<u> </u>	0 = Total Cover	Vegetation Var A Na C	
	I otal covel	Present? Yes No	
% Bare Ground in Herb Stratum: ()			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil			Sampling Point: 46A
Profile Descr	iption: (Describe to the depth	needed to document the indicator or confi	rm the absence of indicators.)
Depth	Matrix	Redox Features	
(inches)	Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
Type: C=Cond	centration. D=Depletion. RM=Rec	luced Matrix, CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining. M=Matrix
Hydric Soil I	ndicators: (Applicable to all I	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A	A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epip	pedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Hist	• •	Loamy Mucky Mineral (F1) (except in M	√ Other (Explain in Remarks)
	Sulfide (A4)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	
_ '	Below Dark Surface (A11)	Redox Dark Surface (F6)	2
	k Surface (A12) ck Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	eyed Matrix (S4)	Redox depressions (F8)	unless disturbed or problematic.
	ayer (if present):		
Type:	ayo. (p. 666y.		
Depth (incl	hes).		Hydric Soil Present? Yes No
lydrology			
-	rology Indicators:	and almost all that and A	
1 1	cators (minimum of one requi		Secondary Indicators (minimum of two require
	Vater (A1)		MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
	er Table (A2)		
Saturation		Salt Crust (B11) Aquatic Invertebrates (B13)	☐ Drainage Patterns (B10)
Water Ma	irks (B1) Deposits (B2)	Hydrogen Sulfide Odor (C1)	Dry Season Water Table (C2)
Drift depo	•	Oxidized Rhizospheres on Living Root	Saturation Visible on Aerial Imagery (C9)
_	or Crust (B4)	Presence of Reduced Iron (C4)	ts (C3) Geomorphic Position (D2) Shallow Aguitard (D3)
Iron Depo		Recent Iron Reduction in Tilled Soils	
	oil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR	
	on Visible on Aerial Imagery (B7)		Frost Heave Hummocks (D7)
	Vegetated Concave Surface (B8)	U Other (Explain in Remarks)	Trost fleave fluitiflocks (D7)
	vegetated contact surface (50)		
Field Observa			
Surface Water			
Water Table P	resent? Yes O No	Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Saturation Pre		Depth (inches): 0	Wetland Hydrology Present? Yes ♥ No ○
(includes capill Describe Rec	iai y iringe)	onitor well, aerial photos, previous inspecti	ions) if available:
Aerial photo	oraca bata (stream yauye, m	ionitor wen, aenar priotos, previous inspecti	onsy, ii availabio.
Remarks:			
	I SEEN WITH BINOCULARS		
JATUKATIUN	A SEEM WITH BINOCOLARS		

Landform (hillslope, terrace, etc.): Valley bottom Local relices Subregion (LRR): LRR A Lat.: 43.6603 Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? Summary of Findings - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Is t	s • No C	State: OR Sampling Point: SP 47A ange: S 15 T 22 S R 10 E convex, none): flat Slope: 1.0% / 0.6 or NAD83 NWI classification: PEMC (If no, explain in Remarks.) lormal Circumstances" present? Yes No Or National Circumstances or National Circumstance o
Landform (hillslope, terrace, etc.): Valley bottom Local reli Subregion (LRR): LRR A Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	s No Care "No Care "N	Convex, none): flat Long.: -121.5117 NWI classification: PEMC (If no, explain in Remarks.) Jormal Circumstances" present? Yes No
Subregion (LRR): LRR A Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes Are Vegetation	s No C Are "No (If nee	Long.: -121.5117 Datum: NAD83 NWI classification: PEMC (If no, explain in Remarks.) Jormal Circumstances" present? Yes No
Soil Map Unit Name: 29A: Crvaquolls. 0 to 3 percent slopes Are Vegetation	Are "No (If nee	NWI classification: PEMC (If no, explain in Remarks.) Iormal Circumstances" present? Yes No
Are Vegetation	Are "No (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
re climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Are "No (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
Are Vegetation	(If nee	lormal Circumstances" present? Yes ● No ○
Summary of Findings - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No No Hydric Soil Present? Yes No No Wittend Hydrology Present? Yes No	oint loca	eded, explain any answers in Remarks.)
Summary of Findings - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No No Hydric Soil Present? Yes No No Wittend Hydrology Present? Yes No	oint loca	eded, explain any answers in Remarks.)
Hydric Soil Present? Yes	Sampled A	ations, transects, important features, et
No Wetland Hydrology Present? Yes No No With Wetland Hydrology Present? Yes No No With Wetland Hydrology Present? Yes No No With Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No No No No No N	Sampled A	
No No No No No No No No		area a₂ Yes ● No ○
VEGETATION - Use scientific names of plants. Dominar Species? Tree Stratum (Plot size:) Absolute % Cover cover cover 20	n a Wetland	1? Tes © NO C
Tree Stratum (Plot size:)		ESENTS SITE CONDITIONS.
Tree Stratum (Plot size:) % Cover Cover		Demineracy Test were lebest.
2.	Status	
3.		Number of Dominant Species That are OBL, FACW, or FAC:
4. 0 □ 0.0% Sapling/Shrub Stratum (Plot size: □) 0 = Total Co 1. 0 □ 0.0% 2. 0 □ 0.0% 4. 0 □ 0.0% 5. 0 □ 0.0% 1 Rumex crispus 10 □ 10.0% 2 Hordeum jubatum 10 □ 10.0% 3 Elymus cinereus 80 ✓ 80.0% 4. 0 □ 0.0% 5. 0 □ 0.0% 6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. □ 0.0% □ 0.0% 10. □ 0.0% □ 0.0% 10. □ 0.0% □ 0.0% 11. □ 0.0% □ 0.0% 100 = Total Co □ 0.0% 100 = Total Co		Total Number of Dominant
Sapling/Shrub Stratum (Plot size:)		Species Across All Strata:1(B)
Sapling/Shrub Stratum (Plot size:)	. ——	Percent of dominant Species
2. 0 0.0% 3. 0 0.0% 4. 0 0.0% 5. 0 0.0% 1 Rumex crispus 10 10.0% 2 Hordeum jubatum 10 10.0% 3 Elymus cinereus 80 80.0% 4. 0 0.0% 5. 0 0.0% 6. 0 0.0% 7. 0 0.0% 9. 0 0.0% 9. 0 0.0% 10. 0 0.0% 10. 0 0.0% 11. 0 0.0% 100 = Total Co	er	That Are OBL, FACW, or FAC: 100.0% (A/B)
3.		Prevalence Index worksheet:
4. 0 □ 0.0% 5. 0 □ 0.0% Herb Stratum (Plot size:) 1 Rumex crispus 10 □ 10.0% 2 Hordeum jubatum 10 □ 10.0% 3 Elymus cinereus 80 ☑ 80.0% 4. 0 □ 0.0% 5. 0 □ 0.0% 6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. 0 □ 0.0% 11. 0 □ 0.0%		Total % Cover of: Multiply by:
5.	. ——	0BL speci es 0 x 1 = 0
Herb Stratum (Plot size:)	. ——	FACW species $0 \times 2 = 0$
Herb Stratum (Plot size:] 1 Rumex crispus 10 ☐ 10.0% 2 Hordeum jubatum 10 ☐ 10.0% 3 Elymus cinereus 80 ☑ 80.0% 4. 0 ☐ 0.0% 5. 0 ☐ 0.0% 6. 0 ☐ 0.0% 7. 0 ☐ 0.0% 8. 0 ☐ 0.0% 9. 0 ☐ 0.0% 10. 0 ☐ 0.0% 11. 0 ☐ 0.0% 100 ☐ Total Co		FAC species 0 x 3 = 0
2. Hordeum jubatum 10 □ 10.0% 3. Elymus cinereus 80 ✓ 80.0% 4. 0 □ 0.0% 5. 0 □ 0.0% 6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. 0 □ 0.0% 11. 0 □ 0.0% 100 = Total Co	er	racu species x 4 =
3 Elymus cinereus 4. 0 □ 0.0% 5. 0 □ 0.0% 6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. 0 □ 0.0% 11. 0 □ 0.0% 100 = Total Co	FAC	UPL species
4. 0 □ 0.0% 5. 0 □ 0.0% 6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. 0 □ 0.0% 11. 0 □ 0.0% 100 = Total Co	FAC	Column Totals:
5. 0 □ 0.0% 6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. 0 □ 0.0% 11. 0 □ 0.0% 100 = Total Co	FAC	Prevalence Index = B/A = 3.000
6. 0 □ 0.0% 7. 0 □ 0.0% 8. 0 □ 0.0% 9. 0 □ 0.0% 10. 0 □ 0.0% 11. 0 □ 0.0% 100 = Total Co		Hydrophytic Vegetation Indicators:
7.		✓ Dominance Test is > 50%
8. 0 0.0% 9. 0 0.0% 10. 0 0.0% 11. 0 0 0.0% 100 = Total Co		✓ Prevalence Index is ≤3.0 ¹
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
10. 0 0.0% 11. 0 100 = Total Co		Wetland Non-Vascular Plants ¹
11		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.
	er	
1	er	Understands.
2. 0 0.0%	er	
0 = Total Co		Hydrophytic Vegetation
% Bare Ground in Herb Stratum: ()		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 47A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture (inches) Color (moist) Type 1 Remarks root mass 10YR 100% Silt Loam 0-6 3/2 6-18 10YR 3/2 100% Silty Clay Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUMED HYDRIC SOILS BASED ON PRIMARY WETLAND INDICATOR AND HYDROPHYTIC VEGETATION. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) ✓ Water Marks (B1) Aquatic Invertebrates (B13) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes

No Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: WATER MARKS ON VEGETATION

Investigator(s): Alessandra Capretti Section, Township, Range: S 27 T 22 S R 10 E	Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES	Sampling	g Date: 10-Au	ug-10
Subregion (RRF) IRR A	Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	ling Point:	SP 49A
Subregion (Riffs) LRR A	Investigator(s): Alessandra Capretti		Section, To	wnship, Ra	ange: S 27	T 22 S	R 10 E	
Soli Map Unit Name: 29A; Crusquells, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this time of year? re climatic/hydrologic conditions on the site typical for this time of year? re climatic/hydrologic conditions on the site typical for this time of year? re vegetation				(concave, o	convex, none): flat		Slope:	0.0% / 0.0
For image Unit Name: 29A: Created by the place of this time of year? re climate/hydrologic conditions on the site typical for this time of year? re climate/hydrologic conditions on the site typical for this time of year? re climate/hydrologic conditions on the site typical for this time of year? re climate/hydrology significantly disturbed? Are "Normal Creumstances" present?	Subregion (LRR): I RR A	Lat.:	43.6326		Long.: -121.514	 5	Datum	1: NAD83
re 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 , soil , or Hydrology naturally problematic? Summary of Findings - Attach site map showing sampling point locations, transects, important features, ethydrophytic Vegetation Present? Yes No is the Sampled Area within a Wetland? Yes No within a Wetland? Yes No			1010020					
Are Vegetation Soil Or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are "Normal Circumstances in Are "Normal Circumstances" present? Yes No Are "Normal Circum			ar? Yes	No C				
Are Vegetation					,		-	No O
Summary of Findings - Attach site map showing sampling point locations, transects, important features, e Hydrophytic Vegetation Present? Yes No Is the Sampled Are within a Wetland? Yes No Wetland Hydrology Present? Yes No No			-			-		110
Hydrophytic Vegetation Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Within a Wetland?	Are Vegetation 🔲 , Soil 🔲 , or Hydrold	ogy 🗀 naturally p	roblematic?	(If nee	eded, explain any a	nswers in Rer	narks.)	
Hydric Soil Present? Yes No	Summary of Findings - Attach site	map showing s	sampling p	oint loc	ations, transe	ects, impo	rtant feat	tures, et
### Wettand Hydrology Present? Yes ● No ○ within a Wettand?	Hydrophytic Vegetation Present? Yes O	No O	lo the	Communed A				
No No No No No No No No	Hydric Soil Present? Yes Yes	No O			Vac 📵 Na	\cap		
VEGETATION - Use scientific names of plants. Dominant Species? Tree Stratum (Plot size:]) Absolute Relativation (Plot size:]) Dominant Species? Status (Plot size:]) 1	Wetland Hydrology Present? Yes •	No O	within	a Wetland	i? res ⊕ Nu	0		
VEGETATION - Use scientific names of plants.	Remarks:							
Species Species Species Stratum Plot size: Absolute Scover Cover Status Number of Dominant Species Number o	OFF-SITE DETERMINATION, SOIL PIT EXCAVA	TED IN THE ROAD R	IGHT-OF-WAY	and Repri	ESENTS SITE CONI	DITIONS.		
Species Species Species Stratum Plot size: Absolute Scover Cover Status Number of Dominant Species Number o								
Absolute Rel.Strat. Indicator Number of Dominance Test worksheet:	VEGETATION - Use scientific name	es of plants.						
1	T O (District)		te Rel.Strat.		Dominance Test	worksheet:		
2				Status			1	(4)
3.					That are OBL, FAC	W, or FAC:		(A)
4.							1	(D)
Sapling/Shrub Stratum (Plot size:		_	0.0%		Species Across Air	oliala.		— ^(b)
Sapling/Shrub Stratum Plot size:			= Total Cove	er			100.09	% (A/R)
2.			_		That Are OBL, FA	ACW, or FAC:	100.0	70 (A/B)
3.					Prevalence Index	worksheet:		
4.								
Solution Stratum Plot size: Solution Stratum Plot size: Solution Soluti	4				1			
Herb Stratum (Plot size:)					·		` -	
Herb Stratum	0						`	
Rumex crispus 10	Herb Stratum (Plot size:		_ = 10tal Cove	er	· ·		4 =	
3 Elymus cinereus	1 Rumex crispus	10	10.0%	FAC	•	×	(b =	
4.	2 Hordeum jubatum	10		FAC				
5.	3 Elymus cinereus			FAC	Prevalence I	ndex = B/A =	3.000)
6								
7								
8.								
9	· ·		0.0%					
10.			0.0%				•	•
100 = Total Cover 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1	10	0	0.0%		Problematic	Hydrophytic \	Vegetation¹ ((Explain)
Woody Vine Stratum (Plot size:) 1.	11.				1 Indicators of by	dric soil and w	vetland hydri	ology must
1.		100	= Total Cove	er				
2			0.00/					
© = Total Cover Vegetation Present? Yes ● No ○ % Bare Ground in Herb Stratum: 0					Hydrophytic			
% Bare Ground in Herb Stratum: 0					Vegetation	Vas (e) Na	\bigcirc	
·	9/ Para Cround in Harb Stratum: 0		= 10141 0000	21	Present?	163 - 110		
Remarks:								
	Remarks:							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 49A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 10YR 100% Silt Loam 0-8 3/1 8-12 10YR 3/2 100% Silty Clay Loam 12-18 3/2 Silty Clay Loam 10YR 100% ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) ☐ Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON WETLAND HYDROLOGY AND HYDROPHYTIC VEGETATION. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) ✓ High Water Table (A2) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No O Depth (inches): Surface Water Present? 5 No O Yes Water Table Present? Depth (inches): 9 Yes

No Wetland Hydrology Present? Saturation Present? Yes No O 0 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: WATER IN CHANNELS

Project/Site: DESCHUTES LWI	City	//County:	SUNRIVER/I	DESCHUTES	Samplir	ng Date: 10-A	ug-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Samı	oling Point:	SP 50A
Investigator(s): Alessandra Capretti	s	ection, Tov	vnship, Ra	ange: S 27	T 22 S	R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom	Lo	ocal relief (concave, c	convex, none): flat		Slope:	1.0% / 0.6
Subregion (LRR): LRR A	 Lat.: 43.64	36		Long.: -121.5201		Datu	n: NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes					assification:	ΡΕΜΔ	
Are Vegetation . , Soil . , or Hydrology . Are Vegetation . , Soil . , or Hydrology . , or Hydrology Are Vegetation . , Soil . , or Hydrology	significantly dist	turbed? ematic?	(If nee	ormal Circumstance	es" present?	Yes • marks.)	No O
Hydrophytic Vegetation Present? Yes No No		Is the S	Sampled A	rea			
Hydric Soil Present? Yes No O			a Wetland	Vac (Na (\supset		
Wetland Hydrology Present? Yes ● No ○		Within	a wetiand				
Two 8 inch culverts under highway and running water. S VEGETATION - Use scientific names of plan	nts. E	n road cons Dominant Species? Rel.Strat.		and past filling even			
Tree Stratum (Plot size:			Status				
1.	0	0.0%		Number of Dominar That are OBL, FACW		3	(A)
2		0.0%		Total Number of Do	minant		
3		0.0%		Total Number of Do Species Across All S		3	(B)
4		0.0%					
Sapling/Shrub Stratum (Plot size:	= -	Total Cove		Percent of domina That Are OBL, FA		100.0	0% (A/B)
1, Salix geyeriana	_ 5	100.0%	FACW	Prevalence Index	worksheet:		
2		0.0%		Total % Cov	er of:	Multiply by:	
3		0.0%		OBL species	0	x 1 =	0
4		0.0%		FACW species	60	x 2 =	120
5		0.0%		FAC species	20	x 3 =	60
Herb Stratum (Plot size:	5 =	Total Cove	•	FACU speci es	10	x 4 =	40
, , , , , , , , , , , , , , , , , , , ,	40	42.1%	FACW	UPL species	10	x 5 =	50
1 Juncus effusus 2 Equisetum hyemale	15	15.8%	FACW	Column Totals:	100	(A)	270 (B)
3 Daucus carota	10	10.5%	UPL	Prevalence Ir	ndex = B/A =	= 2.70	00
4 Elymus cinereus	20		FAC	Hydrophytic Vege	tation Indica	tors:	
5 Festuca idahoensis	10	10.5%	FACU	✓ Dominance T			
6	0	0.0%		✓ Prevalence II			
7	0	0.0%		Morphologica			supporting
8.—	0	0.0%		data in Rema			
9		0.0%			-Vascular Pl	ants ¹	
10.		0.0%		Problematic I	Hydrophytic	Vegetation ¹	(Explain)
11		0.0% Total Cove		¹ Indicators of hyd be present, unless			
Woody Vine Stratum (Plot size:		_		,			
1,		0.0%					
2	0	0.0%		Hydrophytic Vegetation			
		Total Cove		Present? Y	es 💿 No		
% Bare Ground in Herb Stratum: 5							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 50A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture Remarks (inches) Color (moist) Type 1 mostly road fill 0-18 10YR 100% Silt Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: Assume hydric soils based on wetland hydrology. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) ✓ High Water Table (A2) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No O Depth (inches): Surface Water Present? 6 No O Yes Water Table Present? Depth (inches): 0 Yes

No Wetland Hydrology Present? Saturation Present? Yes No O 0 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: WATER IN ROAD SIDE DITCH. DITCH RECEIVES OVERLAND FLOW/RUNOFF FROM ROAD.

Project/Site: DESCHUTES LWI				City/County:	SUNRIVER/	/DESCHUTES Sampling Date: 10-Aug-10
Applicant/Owner: DESCHUTES COUNT	ТҮ					State: OR Sampling Point: SP 51A
Investigator(s): Alessandra Capretti				Section, To	wnship, R	ange: S 27 T 22 S R 10 E
Landform (hillslope, terrace, etc.):	Valley bott	om		Local relief	(concave,	convex, none): flat Slope: 1.0% / 0.6
Subregion (LRR): LRR A			Lat.: 43	6434		Long.: -121.5204 Datum: NAD83
Soil Map Unit Name: 29A: Cryaquolls	. 0 to 2 no	roont clance		.0101		NWI classification: PEMA
Are climatic/hydrologic conditions on			time of year	y Yes	• No	
Are Vegetation, Soil	or Hydro,		ignificantly			Iormal Circumstances" present? Yes No
						F
Are Vegetation . , Soil	or Hydrol tach site	33 —	aturally pro		-	eded, explain any answers in Remarks.) ations, transects, important features, et
Hydrophytic Vegetation Present?	Yes ①	No O				·
Hydric Soil Present?	Yes 🔾	No 💿			Sampled A	Vac O No 📵
Wetland Hydrology Present?	$_{Yes}$ \bigcirc	No 💿		within	a Wetland	1? Tes UNO S
Remarks:						
OFF-SITE DETERMINATION, SOIL OF ROADWAY.	PIT EXCAV	ATED IN THE	ROAD RIGI	HT-OF-WAY ⁻	TO REPRES	SENT NON-WETLAND CONDITIONS SOUTHWEST
VEGETATION - Use scien	ıtific nam	es of plant	ts.	Dominant Species?		
Tree Stratum (Plot size:)		Absolute % Cover	Rel.Strat.	Indicator Status	
1. Pinus contorta			20	2 5.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC:4(A)
2. Salix geyeriana			60	✓ 75.0%	FACW	
3			0	0.0%		Total Number of Dominant Species Across All Strata: 5 (B)
4			0	0.0%		
Sapling/Shrub Stratum (Plot size	:)	80	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
1. Salix geyeriana			5	71.4%	FACW	Prevalence Index worksheet:
2. Pinus contorta			2	28.6%	FAC	Total % Cover of: Multiply by:
3			0	0.0%		OBL species 0 x 1 = 0
4				0.0%		FACW specifies65
5				0.0%		FAC specifies 22 x 3 = 66
Herb Stratum (Plot size:			7	= Total Cove	er	FACU specifies $\frac{15}{2}$ x 4 = $\frac{60}{2}$
1 Festuca idahoensis			15	100.0%	FACU	UPL specifies $0 \times 5 = 0$
2.			0	0.0%	TACO	Collumn Totalis: 102 (A) 256 (B)
3				0.0%		Prevalence Index = B/A =2.510_
4			0	0.0%		Hydrophytic Vegetation Indicators:
5			0	0.0%		✓ Dominance Test is > 50%
6			0	0.0%		✓ Prevalence Index is ≤3.0 ¹
7				0.0%		Morphological Adaptations 1 (Provide supporting
8.—			_	0.0%		data in Remarks or on a separate sheet)
9,				0.0%		
10.			_	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
11.			15	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1,				0.0%		
2			0	0.0%		Hydrophytic Vegetation
9/ Para Cround in Harb Street	v. 0		0	= Total Cove	er	Present? Yes No
% Bare Ground in Herb Stratum	ı. U					
Remarks:						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 51A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture Remarks (inches) Color (moist) Type 1 with gravels 10YR 100% Silt Loam 0-3 3/3 with gravels 3-18 10YR 3/3 100% Silt Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No • Yes O **Hydric Soil Present?** Depth (inches): Remarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present? Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes O No 💿 Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	/DESCHUTES Sampling Date: 10-Aug-10
Applicant/Owner: DESCHUTES COUNTY	TY				State: OR Sampling Point: SP 52A
Investigator(s): Alessandra Capretti			Section, To	wnship, R	ange: S 27
Landform (hillslope, terrace, etc.):	Valley bottom		Local relief (concave,	convex, none): flat Slope: 1.0% / 0.6
Subregion (LRR): LRR A		Lat.: 43	6354		Long.: -121.5161 Datum: NAD83
Soil Map Unit Name: 29A: Cryaquolls	c 0 to 2 percent claner		.0001		NWI classification: PABFx
Are climatic/hydrologic conditions on			yes	● No (
Are Vegetation, Soil	, or Hydrology	significantly			Normal Circumstances" present? Yes No
					F
Are Vegetation , Soil	, or Hydrology □ ttach site man sk	naturally pro			eded, explain any answers in Remarks.) eations, transects, important features, et
Hydrophytic Vegetation Present?	Yes O No •				
	Yes • No •		Is the	Sampled A	
Hydric Soil Present?	Yes No		within	a Wetland	_{d?} Yes • No ·
Wetland Hydrology Present?	Tes C NO C				
Remarks: OFF-SITE DETERMINATION, SOIL	DIT EYCAVATED IN DO	NAD BIGHT-O	F_\//AV		
OTT-STIL BETERMINATION, SOIL	TH EXCAVATED IN IN	JAD KIGITI-O	1 - VVA1.		
VEGETATION - Use scien	ntific names of plan	nts	Dominant		
VEGETATION GOODS	- Terrior Harries or prair	Absolute	_Species? _ Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	
1		0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: O (A)
2,		0	0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata: 1 (B)
4		0	0.0%		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	:)	0	= Total Cove	r	That Are OBL, FACW, or FAC: 0.0% (A/B)
1,			0.0%		Prevalence Index worksheet:
2			0.0%		Total % Cover of: Multiply by:
3			0.0%		0BL speci es0 x 1 =0
4. 5.			0.0%		FACW species 0 x 2 = 0
3			0.0%		FAC species $0 \times 3 = 0$
Herb Stratum (Plot size:)	0	= Total Cove	r	FACU species $\frac{100}{0}$ x 4 = $\frac{400}{0}$
1 Festuca idahoensis		100	100.0%	FACU	UPL species
2.		0	0.0%		Column Totals: (A) (B)
3		0	0.0%		Prevalence Index = B/A = 4.000
4		0	0.0%		Hydrophytic Vegetation Indicators:
5			0.0%		☐ Dominance Test is > 50%
6			0.0%		Prevalence Index is ≤3.0 ¹
7		_	0.0%		Morphological Adaptations 1 (Provide supporting
8.———			0.0%		data in Remarks or on a separate sheet)
10			0.0%		Wetland Non-Vascular Plants ¹
11.			0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
		100	= Total Cove	r	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				and the second s
1,		0	0.0%		
2			0.0%		Hydrophytic Vegetation
		0	= Total Cove	r	Present? Yes No No
% Bare Ground in Herb Stratum	1: 0				
Remarks:					
Pasture with horse and cattle graz	ing. Assessment area a	also looks like	it is used as a	a hay crop).

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 52A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture (inches) Color (moist) Type 1 Remarks root mass 0-4 10YR 100% Silt Loam 3/2 4-18 10YR 3/2 100% Silt Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUMED HYDRIC BASED ON HYDROLOGY. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No O Depth (inches): Surface Water Present? Yes O No 💿 Water Table Present? Depth (inches): Yes

No Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: WATER IS DITCHED AND MOST LIKELY PIPED/DITCHED IN MOST PARTS OF THE ASSESSMENT AREA.

	Lat.: 43.6 me of year? gnificantly di	Yes isturbed?	No C	ormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)	0.0
Landform (hillslope, terrace, etc.): Valley bottom ubregion (LRR): LRR A oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this ti are Vegetation , Soil , or Hydrology , si are Vegetation , Soil , or Hydrology , na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	Lat.: 43.6 ime of year? gnificantly di	Yes isturbed?	No C	Convex, none): flat Long.: -121.5156 NWI classification: PEMC (If no, explain in Remarks.) cormal Circumstances" present? Peded, explain any answers in Remarks.)	0.0
ubregion (LRR): LRR A oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this ti are Vegetation , Soil , or Hydrology , si are Vegetation , Soil , or Hydrology , no Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	Lat.: 43.6 ime of year? gnificantly di	Yes isturbed?	No C	Long.: -121.5156 Datum: NAD83 NWI classification: PEMC (If no, explain in Remarks.) formal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)	0.0
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this ti are Vegetation , Soil , or Hydrology , si are Vegetation , Soil , or Hydrology , na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	me of year? gnificantly di	Yes isturbed? lematic?	Are "N	NWI classification: PEMC (If no, explain in Remarks.) formal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)	
e climatic/hydrologic conditions on the site typical for this ti are Vegetation , Soil , or Hydrology since Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho	gnificantly di	isturbed? lematic?	Are "N	(If no, explain in Remarks.) formal Circumstances" present? Yes No eded, explain any answers in Remarks.)	
e climatic/hydrologic conditions on the site typical for this ti are Vegetation , Soil , or Hydrology since Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho	gnificantly di	isturbed? lematic?	Are "N	ormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)	
Furnisher Vegetation , Soil , or Hydrology , na Summary of Findings - Attach site map shows the state of the	aturally probl	lematic?	(If nee	ormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)	
Summary of Findings - Attach site map sho	•				
Summary of Findings - Attach site map sho	•				
				ations, transects, important features, e	et :
Hydric Soil Present? Yes No		1 - 41 1	CII A		
			Sampled A	Vac (a) Na (
Wetland Hydrology Present? Yes No		within	a Wetland	i? Tes © NO C	
Remarks: OFF-SITE DETERMINATION, SOIL PIT EXCAVATED IN THE	ROAD RIGH	T-OF-WAY A	and Repre	ESENTS SITE CONDITIONS.	
VEGETATION - Use scientific names of plants	S.	Dominant _Species? _			
Tree Stratum (Plot size:		Rel.Strat.	Indicator Status	Dominance Test worksheet:	
1	0	0.0%	otatus	Number of Dominant Species That are OBL, FACW, or FAC: (A)	
2.	0	0.0%		(,	
3	0	0.0%		Total Number of Dominant Species Across All Strata: 3 (B)	
4	0	0.0%			
Sapling/Shrub Stratum (Plot size:		= Total Cove	r	Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B	3)
1,	_0	0.0%		Prevalence Index worksheet:	
2		0.0%		Total % Cover of: Multiply by:	
3	0 [0.0%		0BL speci es 0 x 1 = 0	
4 5.	0 [0.0%		FACW species $50 \times 2 = 100$	
J				FAC species 20 x 3 = 60	
Herb Stratum (Plot size:		= Total Cove	r	0 0 0	
1 Juncus effusus	50	✓ 55.6%	FACW	UPL Species	
2 Festuca idahoensis		22.2%	FACU	Column Totals: 90 (A) 240 (B)	.)
3 Elymus cinereus		22.2%	FAC	Prevalence Index = B/A = 2.667	
4		0.0%		Hydrophytic Vegetation Indicators:	
5		0.0%		✓ Dominance Test is > 50%	
7		0.0%		✓ Prevalence Index is ≤3.0 ¹	
8		0.0%		Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	ı
9		0.0%		Wetland Non-Vascular Plants ¹	
10.———		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)	
11.	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must	t
Woody Vine Stratum (Plot size:	90 =	= Total Cove	r	be present, unless disturbed or problematic.	
1.	о [0.0%			
2.	0 [0.0%		Hydrophytic	
		= Total Cove	r	Vegetation Present? Yes No	
% Bare Ground in Herb Stratum: 10					
Remarks:					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 53A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture Remarks (inches) Color (moist) Type 1 roots 0-4 10YR 100% Silt Loam 3/1 with gravels 4-18 10YR 3/1 100% Silt Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUMED HYDRIC SOILS BASED ON WETLAND HYDROLOGY INDICATORS AND HYDROPHYTIC VEGETATION. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) ✓ High Water Table (A2) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No O Depth (inches): Surface Water Present? 3 Yes No O Water Table Present? Depth (inches): 0 Yes

No Wetland Hydrology Present? Saturation Present? Yes No O 0 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

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

Lat.: 43 time of year significantly naturally pro	Local relief .6333 ? Yes disturbed?	(concave, c	State: OR ange: S 27 convex, none): flat Long.: -121.515 NWI	т_22 S	Pling Point: R 10 E Slope: Datu	SP 54A 1.0% / m: NAD83
Lat.: 43 time of year significantly	Local relief .6333 ? Yes disturbed?	(concave, c	convex, none): flat Long.: -121.515 NWI	1	Slope:	
time of year significantly naturally pro	.6333 ? Yes	No C	Long.: -121.515	1		
time of year significantly naturally pro	? Yes		NWI		Datu	m: NAD83
time of year significantly naturally pro	? Yes		NWI			
ignificantly	disturbed?			·laccification·	DEME	
ignificantly	disturbed?) (If no eynla	in in Remark		
naturally pro			ormal Circumstand			No O
	blematic?			•		110
_		(If nee	eded, explain any a	nswers in Re	marks.)	
owing sa	mpling p	oint loc	ations, transe	cts, impo	ortant fea	atures, et
	Is the	Sampled A		\cap		
	within	a Wetland	_{1?} Yes S No	0		
ROAD RIGI	HT-OF-WAY	AND REPRE	ESENTS SITE CONI	OITIONS.		
ts.	Dominant					
Absolute	•	Indicator	Dominance Test	worksheet:		
% Cover	Cover	Status	Number of Domina	int Species		
0	0.0%				2	(A)
			Total Number of D	ominant		
			Species Across All	Strata:	2	(B)
			Percent of domin	nant Species		
0	= Total Cove	er			100.0	0% (A/B)
0	0.0%		Prevalence Index	worksheet:		
0	0.0%		Total % Co	ver of:	Multiply by:	
0	0.0%		OBL speci es	0	x 1 =	0
0	0.0%		FACW species	0	x 2 =	0
0	0.0%		FAC species	100	x 3 =	300
0	= Total Cove	er	FACU species	0	x 4 =	0
10	10.09/	FAC	UPL speci es	0	x 5 =	0
			Column Totals:	100	(A)	300 (B)
70	70.0%	FAC	Prevalence I	ndex = B/A =	= 3.00	00
0	0.0%		Hydrophytic Veg	etation Indica	ators:	
0	0.0%					
	0.0%		✓ Prevalence	index is ≤3.0	,1	
					•	et)
	0.0%		☐ Problemation	Hydrophytic	Vegetation ¹	(Explain)
100	= Total Cove	er				
			be present, unle	s aisturbed o	or problemat	.IC.
0	0.0%					
0	0.0%		Hydrophytic			
0	= Total Cove	er	Vegetation Present?	Yes 💿 No	$, \bigcirc$	
			1			
	15. Absolute % Cover 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	within within	Within a Wetland Wetla	Absolute Rel.Strat. Indicator Species? Absolute Rel.Strat. Indicator Status O O.0% O	Within a Wetland? Yes	Within a Wetland? Yes

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 54A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 10YR 100% Silt Loam 0-8 8-12 10YR 3/2 100% Silty Clay Loam WITH COBBLES 3/2 Silty Clay Loam 12-18 10YR 100% ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUMED HYDRIC BASED ON WETLAND HYDROLOGY INDICATORS AND HYDROPHYTIC VEGETATION. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) ✓ High Water Table (A2) ✓ Saturation (A3) Salt Crust (B11) ■ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No O Depth (inches): Surface Water Present? 6 Yes No O Water Table Present? Depth (inches): 3 Yes ● No ○ Wetland Hydrology Present? Saturation Present? Yes No O 0 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: Surface water present within 2 feet of soil pit.

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

Project/Site: DESCHUTES LWI	City/County: SUNRIVER	/DESCHUTES Sampling Date: 10-Aug-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 55A
Investigator(s): Alessandra Capretti	Section, Township, R	tange: S 34
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave,	convex, none): flat Slope: 1.0% / 0.6
Subregion (LRR): LRR A	Lat.: 43.6290	Long.: -121.5129 Datum: NAD83
Soil Map Unit Name: 115A: Shanahan loamy coarse sand, lo		NWI classification: PEMA
re climatic/hydrologic conditions on the site typical for this	O (
		Normal Circumstances" present? Yes No No
		,
Are Vegetation ⊔ , Soil ⊔ , or Hydrology ⊔ Summary of Findings - Attach site map sh		eded, explain any answers in Remarks.) cations, transects, important features, et
Hydrophytic Vegetation Present? Yes No	Is the Sampled	Arna
Hydric Soil Present? Yes ○ No ●	-	Van O No 🗨
Wetland Hydrology Present? Yes ○ No ●	within a Wetland	d? Tes C NO C
Remarks: OFF-SITE DETERMINATION. AGGRESSIVE DOGS NEARBY PATCH.		AMPLE PLOT. LODGEPOLE PINES FORMED A DENSE
VEGETATION - Use scientific names of plan	nts. Dominant Species?	
Tree Stratum (Plot size:	Absolute Rel.Strat. Indicator % Cover Cover Status	
1. Pinus contorta	20 🗹 100.0% FAC	Number of Dominant Species That are OBL, FACW, or FAC:1 (A)
2		
3		Total Number of Dominant Species Across All Strata:1 (B)
4	0	
Sapling/Shrub Stratum (Plot size:	= Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1,	_	Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		0BL species x 1 =0
4		FACW species $0 \times 2 = 0$
J	0	FAC species 20 x 3 = 60
Herb Stratum (Plot size:	0 = Total Cover	FACU species $0 \times 4 = 0$
1	0	UPL species $\frac{0}{x}$ x 5 = $\frac{0}{x}$
2.	0 0.0%	Column Totals: 20 (A) 60 (B)
3	0 0.0%	Prevalence Index = B/A = 3.000
4	0	Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6		✓ Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations 1 (Provide supporting
8.——9		data in Remarks or on a separate sheet) Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation ¹ (Explain)
11.		
Woody Vine Stratum (Plot size:	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1,	0	
2.		Hydrophytic
		Vegetation Present? Yes No
	0 = Total Cover	Present? Yes W NO
% Bare Ground in Herb Stratum: 100	= lotal cover	Present?
% Bare Ground in Herb Stratum: 100 Remarks:	= lotal Cover	Present? 163 G NO G

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 55A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No • **Hydric Soil Present?** Yes C Depth (inches): Remarks: NO PIT DUG IN THE RIGHT OF WAY, ANGRY DOGS NEARBY. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes O No 💿 Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

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

						Aug-10
			State: OR	Sam	pling Point:	SP 56A
	Section, To	wnship, R	ange: S 34	T 22 S	R 10 E	
	Local relief	(concave,	convex, none): flat		Slope:	1.0% / 0.6
Lat.: 43	.6286		Long.: -121.512	7	 Datu	m: NAD83
		. ● No ○				
						No O
-				•		
nowing sa	mpling p	oint loc	ations, transe	ects, impo	ortant fea	atures, et
	Is the	Sampled A	∆rea			
		-	Vec O No	•		
	within	a wetiand	19 100 - 110			
ACCESS.						
nts.	Dominant Species?					
			Dominance Test	worksheet:		
		FAC			1	(A)
	0.0%					
	0.0%				1	(B)
0	0.0%					
15	= Total Cove	er			100.0	0% (A/B)
0	0.0%		Prevalence Index	worksheet:		
	0.0%		Total % Co	ver of:	Multiply by:	
	0.0%		OBL species		x 1 =	0
					x 2 =	0
				_		45
0	= Total Cove	er	FACU species		x 4 =	0
0	0.0%		UPL species			
0	0.0%		Column Totals:	15	(A)	45 (B)
0	0.0%		Prevalence I	ndex = B/A =	= 3.00	00
	0.0%					
			✓ Prevalence	Index is ≤3.0	,1	
	0.0%				•	et)
	0.0%					(Evolain)
_	0.0%				· ·	• •
0	= Total Cove	er				
	0.0%					
			M		\bigcirc	
0	= Total Cove	er	Present?	Yes 💌 No) U	
	ACCESS. Absolute % Cover 15 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Local relief	Lat.: 43.6286 low, 0 to 3 percent slopes stime of year? Yes No No No No No No No N	Lat.: 43.6286 Lat.: 43.6286 Long.: -121.512 low, 0 to 3 percent slopes stime of year? Yes No (If no, explain any a significantly disturbed? naturally problematic? Is the Sampled Area within a Wetland? Absolute Species? Absolute Rel.Strat. 15 100.0%	Local relief (concave, convex, none): flat Lat.: 43.6286	Local relief (concave, convex, none): flat Lat.: 43.6286

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 56A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No • **Hydric Soil Present?** Yes C Depth (inches): Remarks: LIMITED ACCESS, COULD NOT DIG PIT IN RIGHT OF WAY Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes O No 💿 Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

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

Project/Site: DESCHUTES LWI	City/County: SUNRIVE	R/DESCHUTES Sampling Date: 10-Aug-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 57A
Investigator(s): Alessandra Capretti	Section, Township,	Range: S 14 T 21 S R 10 E
Landform (hillslope, terrace, etc.): Flat		e, convex, none): concave Slope: 3.0% / 1.7
Subregion (LRR): LRR A	Lat.: 43.7488	Long.: -121.4997 Datum: NAD83
		NWI classification: PEMA
Soil Map Unit Name: <u>115A: Shanahan loamy coarse sand, l</u> re climatic/hydrologic conditions on the site typical for thi		
Are Vegetation , Soil , or Hydrology	,	"Normal Circumstances" present? Yes No
		,
Are Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲	naturally problematic? (If r	needed, explain any answers in Remarks.)
Summary of Findings - Attach site map sl	howing sampling point lo	ocations, transects, important features, et
Hydrophytic Vegetation Present? Yes • No		
Hydric Soil Present? Yes No •	Is the Sample	d Area
Wetland Hydrology Present? Yes ○ No ●	within a Wetla	and? Yes ○ No ⑤
Remarks:		
OFF-SITE DETERMINATION		
$\boldsymbol{VEGETATION}$ - Use scientific names of pla	nts. Dominant Species?	
	Absolute Rel.Strat. Indicate	or Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Cover Status	Number of Dominant Species
1		That are OBL, FACW, or FAC: 1 (A)
2		Total Number of Dominant
4.		Species Across All Strata: 1 (B)
	0 = Total Cover	Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:		That Are OBL, FACW, or FAC:100.0% (A/B)
1,		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species 0 x 1 = 0
4 5.	0	FACW species $0 \times 2 = 0$
J		FAC species $80 \times 3 = 240$
Herb Stratum (Plot size:	0 = Total Cover	FACU species $0 \times 4 = 0$
1 Unidentified pasture grasses		UPL species
2	0 0.0%	Column Totals: 80 (A) 240 (B)
3		Prevalence Index = B/A = 3.000
4		Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6		Prevalence Index is ≤3.0 ¹
7.————————————————————————————————————		Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9		 ─ Wetland Non-Vascular Plants¹
10.		Problematic Hydrophytic Vegetation ¹ (Explain)
11	0 0.0%	1 Indicators of hydric soil and wetland hydrology must
	80 = Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:	0	
1. 2.	0	Hydrophytic
<u> </u>		Vegetation Var A Na O
9/ Para Cround in Harb Stratum: 20	= Total Cover	Present? Yes No U
% Bare Ground in Herb Stratum: 20		
Remarks:		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 57A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Color (moist) % Color (moist) % Loc² Texture Remarks (inches) Type 1 no soil, root 0-1 mass in this layer with silt and pebbles 1-6 10YR 3/3 100% Loamy Sand with silt and pebbles 10YR 3/3 6-18 100% Loamy Sand ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No • **Hydric Soil Present?** Yes C Depth (inches): Remarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present? Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes O No 💿 Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Deschutes County LWI			City/County:	Sunriver/De	eschutes Sa	mpling Date: 03	3-May-10
Applicant/Owner: DESCHUTES COUN	TY				State: OR	Sampling Point	: SP 100
Investigator(s): A. Booy, R. Baker, J.	Gordon		Section, To	vnship, Ra	ange: S 13 T 20 5	S R 10 E	-
Landform (hillslope, terrace, etc.):	: Valley bottom		Local relief (concave, o	convex, none): none	Slope:	0.0% / 0.0
Subregion (LRR): LRR B		 Lat.: 43			Long.: -121.4740	Dat	tum: NAD 83
Soil Map Unit Name: W: Water			7.0303				
	the site tomical for th	sia timea af waar?	. Vec	● No ○	NWI classification (If no, explain in Re		
re climatic/hydrologic conditions on		-					No O
Are Vegetation, Soil	, or Hydrology	significantly			ormal Circumstances" pres		/ NO C
Are Vegetation	, or Hydrology L	naturally pro			eded, explain any answers		atures etc
	Yes • No	mowning su		11000	rtions, transcots, ii	iiportant io	
Hydrophytic Vegetation Present?	Yes No		Is the S	ampled A	rea		
Hydric Soil Present?	Yes • No O		within	a Wetland	_{l?} Yes 💿 No 🔾		
Wetland Hydrology Present?	Yes S No C						
Remarks:							
On-site determination.							
VEGETATION - Use scier	atific names of al	ants	Dominant				
VEGETATION - 03e scier	itilic hames of pi		Species? _		·		
Tree Stratum (Plot size:)	Absolute % Cover		ndicator Status	Dominance Test worksho		
1.	·	0	0.0%		Number of Dominant Specie That are OBL, FACW, or FAC		2 (A)
2		0	0.0%		,,		
3.		•	0.0%		Total Number of Dominant Species Across All Strata:		2 (B)
4		0	0.0%				
Sapling/Shrub Stratum (Plot size:	:)	0	= Total Cove	-	Percent of dominant Spe That Are OBL, FACW, or		0.0% (A/B)
1. Salix sp.		10	100.0%	FACW	Prevalence Index worksh	neet:	
2		0	0.0%		Total % Cover of:	Multiply by	<i> </i> :
3		0	0.0%		OBL specifes 0	x 1 =	0
4			0.0%		FACW specifes 108	3 x 2 =	216
5		0	0.0%		FAC speciles 0	x 3 = _	0
Herb Stratum (Plot size:	\	10	= Total Cove	•	FACU specifes 0	x 4 = _	0
1 Carex sp.)	96	9 6.0%	FACW	UPL speciles2	x 5 = _	10
2 Geum macrophyllum		1	1.0%	FACW	Collumn Totals:110	(A) _	226 (B)
3 Rumex acetosa			2.0%	UPL	Prevalence Index =	B/A = 2.	055
4. Juncus balticus		1	1.0%	FACW	Hydrophytic Vegetation I	ndicators:	
5		0	0.0%		Dominance Test is >		
6		0	0.0%		✓ Prevalence Index is		
7			0.0%		Morphological Adap	tations 1 1 'rovio	de supportina
8			0.0%		data in Remarks or	on a separate sh	eet)
9			0.0%		Problematic Hydrop	hytic Vegetation	ι 1 (¹ εplain)
10			0.0%				
11		0100	= Total Cove		1 Indicators of hydric so be present, unless distur		
Woody Vine Stratum (Plot size:)				-	<u> </u>	
1			0.0%				
2			0.0%		Hydrophytic Vegetation		
		0	= Total Cove	•	Present? Yes •	No O	
% Bare Ground in Herb Stratum	n: 0 9	% Cover of Bioti	ic Crust ()				
Remarks:							
Salix sp. and Carex sp. assumed F	ACW.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	ription: (Des	scribe to t	he depth ne	eded to document	the indi	cator or cor	firm the	absence of indicator	s.)
Depth		Matrix			dox Feati				B 1
(inches)	Color (r	-		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-5	10YR	2/2	100%					Silt Loam	
5-12	10YR	2/2	70%					Muck	2 different soils
5-12	10YR	4/3	30%					Clay Loam	
12-21	10YR	2/2	100%					Muck	
					-				
1.5				- Matrix CC Carre				-ti Di Dlisia-	M. Market
· · · · · · · · · · · · · · · · · · ·				·			ins ²Loc	ation: PL=Pore Lining.	
Histosol ((Аррисак	ne to an LRR	s, unless otherwis Sandy Redox)			roblematic Hydric Soils: ³
=	pedon (A2)			Stripped Matr				1 cm Muck (A	• • •
Black Hist						-1)		2 cm Muck (A	
	Sulfide (A4)			Loamy Mucky				Reduced Vert	, ,
	Layers (A5) (LRR C)		Loamy Gleyed		2)		Red Parent M	aterial (TF2)
	k (A9) (LRR [Depleted Mat				U Other (Explain	n in Remarks)
	Below Dark S	•	1)	Redox Dark S	•	•			
	k Surface (A1		•,	Depleted Dark		(F7)			
	ıck Mineral (S	•		Redox depres				3 Indicators of hy	drophytic vegetation and
	eyed Matrix (S				(F9)			wetland hydro	logy must be present.
Restrictive L									
Type:	ayer (ii pres	city.							
Depth (inc	hes).							Hydric Soil Preser	nt? Yes • No ·
Remarks:									
Hydrology	у								
Wetland Hyd	lrology India	cators:							
Primary Indi	cators (mini	imum of	one required	; check all that ag	(ylgc			Secondary	Indicators (2 or more required)
Surface W	Vater (A1)			Salt Crust (I	B11)			Water N	Marks (B1) (Riverine)
High Wate	er Table (A2)			☐ Biotic Crust	(B12)			Sedime	nt Deposits (B2) (Riverine)
✓ Saturation	n (A3)			Aquatic Inv	ertebrates	(B13)		Drift De	posits (B3) Riverine)
✓ Water Ma	rks (B1) (Nor	riverine)		Hydrogen S	ulfide Odo	r (C1)			e Patterns (B10)
Sediment	Deposits (B2) (Nonrive	rine)	✓ Oxidized Rh	izosphere	s along Living	Roots (C	3) Dry Sea	son Water Table (C2)
Drift depo	osits (B3) (No	neriverine)		Presence of					Burrows (C8)
Surface S	oil Cracks (B6)		Recent Iron	Reduction	n in Plowed S	oils (C6)		on Visible on Aerial Imagery (C9)
✓ Inundatio	n Visible on A	erial Imag	ery (B7)	☐ Thin Muck S	Surface (C	7)			Aquitard (D3)
☐ Water-Sta	ained Leaves	(B9)		Other (Expl	ain in Rem	arks)		FAC-net	utral Test (D5)
Field Observ	ations:								
Surface Water		Yes	O No 💿	Depth (inc	ches):				
Water Table P	resent?	Yes	● No ○	Depth (inc	hes).	22	1		_
Saturation Pre							Wetl	and Hydrology Prese	ent? Yes No
(includes capil	lary fringe)	Yes		Depth (inc	_	12]		
Describe Red	corded Data	(stream	gauge, mon	itor well, aerial ph	notos, pre	evious inspe	ections),	f available:	
Remarks:		-					-		
WATER TABI	LE AT 22 IN	CHES, H	OWEVER EV	DENCE OF HIGH	ER WATE	R TABLE C	BSERVE	BY WATER MARKS	AND OXIDIZED ROOTS
WILK INDI	/\:	JOILES, IN		DENOE OF THOSE	VV///L	INDLE C	DOENVEL	> DI WINTEN MANNO	THIS ONDIZED ROOTS

Project/Site: Deschutes County LWI			City/County: [Deschutes	Sa	ampling Date: 0	3-May-10	
Applicant/Owner: DESCHUTES COUN	ТҮ				State: OR	Sampling Point	: SP 101	1
Investigator(s): AB/AM/JG/RB			Section, To	wnship, Ra	ange: S 13 T 20	S R 10 E		
Landform (hillslope, terrace, etc.):	flat		Local relief (concave,	convex, none): none	Slope:	0.0% /	0.0 °
Subregion (LRR): LRR B		 Lat.: 45	5 8422		Long.: -121.4749	Da	 tum: NAD 83	
-			J.0422					
Soil Map Unit Name: 144A: Sunriver			o Vec	● No ○	NWI classific			
are climatic/hydrologic conditions or	• •					6	No O	
Are Vegetation , Soil ,	, or Hydrology				ormal Circumstances" pre		/ NO C	
Are Vegetation, Soil Summary of Findings - At	, or Hydrology				eded, explain any answers		aturos ot	tc
			inping po	1111 1000	Trions, trunscots, n			
Hydrophytic Vegetation Present?		, ()	Is the S	Sampled A	Area			
Hydric Soil Present?		,0	within	a Wetland	_{i?} Yes 💿 No 🔾			
Wetland Hydrology Present?	res 🙂 No	,						
Remarks:								
On-site determination.								
VEGETATION - Use scien	ntific names	of plants	Dominant					
VEGETATION - OSC SCIEN	Tune names	<u> </u>	Species? _		. Di			
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test worksh			
1. Pinus contorta			100.0%	FAC	Number of Dominant Speci- That are OBL, FACW, or FA		1 (A)	
2.		0	0.0%					
3			0.0%		Total Number of Dominant Species Across All Strata:		2 (B)	
4			0.0%					
Sapling/Shrub Stratum (Plot size			= Total Cove	r	Percent of dominant Sp That Are OBL, FACW, or		0.0% (A/B	В)
1. Prunus sp.		40	✓ 50.0%	FACU	Prevalence Index works	neet:		
2. Salix sp.		40	✓ 50.0%	FACW	Total % Cover of:	Multiply b	y:	
3.		0	0.0%		OBL specifes 0	x 1 =	0	
4			0.0%		FACW speciles 40) x 2 =	80	
5			0.0%		FAC specifies15	x 3 = _	45	
(8)	,	80	= Total Cove	r	FACU specifies	40 x 4 = _	160	
Herb Stratum (Plot size:)	0	D 0.00/		UPL specifes0	x 5 = _	0	
1,			0.0%		Collumn Totals:	95 (A)	285 (B)	3)
2. 3.			0.0%		Prevalence Index =	B/A = 3.	.000	
4.			0.0%		Hydrophytic Vegetation			
5			0.0%		Dominance Test is:			
6			0.0%		✓ Prevalence Index is	s ≤3.0 ¹		
7			0.0%		Morphological Adap	otations 1 1 rovi	de supporting	a
8,			0.0%		data in Remarks or	on a separate sh	ieet)	•
9			0.0%		Problematic Hydrop	hytic Vegetation	າ 1 (¹ ເplain)	
10,			0.0%					
11,		0	= Total Cove		1 Indicators of hydric so			st
Woody Vine Stratum (Plot size:)				be present, unless distu	rbed or problem	atic.	
1	,	0	0.0%					
2			0.0%		Hydrophytic			
		0	= Total Cove	r	Vegetation Present? Yes Vegetation	No O		
% Bare Ground in Herb Stratun	n: 10Pinus contort	aP % Cover of Biot	ic Crust ()					
Remarks: Prunus sp. assumed FAC								
riulius sp. assumed FAC	anu sanx sp. ass	Bullicu i ACW.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (Des	cribe to	the depth ne	eded to document	the indic	cator or cor	nfirm the a	absence of indicators	s.)
Depth		Matrix		Red	dox Featu	ıres			
(inches)	Color (n	noist)		Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-4	10YR	2/2	100%					Silt Loam	ROOTS, UNDECOMPOSED WOOD
4-8	10YR	3/1	100%					Silt	ROOTS, UNDECOMPOSED VEG
8-18	10YR	2/2	100%					Silt Loam	SAND POCKETS, CHARCOAL
								-	PLANT MATERIAL
					-			-	
1 Type: C=Cor	centration. D	=Depletio	n. RM=Reduce	ed Matrix, CS=Cover	ed or Coat	ted Sand Gra	ins ² Loca	ation: PL=Pore Lining.	M=Matrix
Hydric Soil I	ndicators: ((Applical	ole to all LRR	s, unless otherwis	e noted.))		Indicators for Pr	oblematic Hydric Soils: ³
Histosol (,			Sandy Redox	(S5)			1 cm Muck (A	9) (LRR C)
. —	pedon (A2)			Stripped Matri	x (S6)			2 cm Muck (A	10) (LRR B)
Black Hist				Loamy Mucky	Mineral (F	1)		Reduced Verti	c (F18)
_ ` `	Sulfide (A4)	DD (C)		Loamy Gleyed	Matrix (F.	2)		Red Parent Ma	aterial (TF2)
l —	Layers (A5) (L k (A9) (LRR D			Depleted Matr	ix (F3)			Other (Explain	in Remarks)
l —	k (A9) (LRR D Below Dark Si	•	11)	Redox Dark S	urface (F6)			
	k Surface (A1:	•	1)	Depleted Dark		[F7)			
_	ck Mineral (S1	•		Redox depres				3 Indicators of hyd	Irophytic vegetation and
	eyed Matrix (S	,			F9)			wetland hydrol	ogy must be present.
Restrictive La									
	ayer (ii pres	ent):							
Type: Depth (incl	200).							Hydric Soil Presen	t? Yes No
	•			e of the organi ly decaying an					
Hydrology	/								
Wetland Hyd	rology Indic	ators:							
Primary Indi	cators (mini	mum of	one required	; check all that ap	(yla			Secondary	Indicators (2 or more required)
Surface W	ater (A1)			Salt Crust (E	311)			Water M	arks (B1) (Riverine)
High Wate				Biotic Crust	(B12)			Sedimen	t Deposits (B2) (Riverine)
✓ Saturation	. ,			Aquatic Inve					posits (B3) Riverine)
	rks (B1) (Non			☐ Hydrogen Si					e Patterns (B10)
	Deposits (B2)	•	•		•	along Living	g Roots (C3	,	son Water Table (C2)
	sits (B3) (Nor)	Presence of					Burrows (C8)
	oil Cracks (B6)		(0.7)			n in Plowed S	Soils (C6)		on Visible on Aerial Imagery (C9)
	n Visible on A	`	jery (B7)	☐ Thin Muck S					Aquitard (D3)
✓ Water-Sta	ined Leaves (B9)		U Other (Expla	ain in Rem	arks)		FAC-neu	tral Test (D5)
Field Observ	ations:	.,	O O				7		
Surface Water	Present?	Yes		Depth (inc	hes):				
Water Table Pi	resent?	Yes	● No ○	Depth (inc	hes):	12	<u> </u>		nt? Yes • No O
Saturation Pre-		Yes	● No ○	Depth (inc	hes):	4	Wetla	and Hydrology Prese	nt? Yes S NO C
		(stream	gauge, mon	itor well, aerial ph	otos, pre	vious inspe	ections), i	f available:	
-							•		
Remarks:									
	AT 4 INCH	IES. WA	TER TABLE A	AT 12 INCHES					
		,							

Applicant/Owner: SECHATTS COUNTY Section, Township, Range: S 24 T 20 S R D E	Project/Site: Deschutes LWI				City/County:	Deschutes		Sampling Dat	e: 04-May-10	0
Local relief (concave, convex, none): Rat	Applicant/Owner: DESCHUTES COUN	ГҮ					State: OR	Sampling F	Point: S	SP 102
Subtragion (LRR): LIRR B Lat: 43.8289 Lat: 43.8289 Lat: 43.8289 No Crystallouis Cardiolius Cardioli	-				Section, To	wnship, Ra	ange: \$ 24 T 20) S R 1	 0 E	
Subtragion (LRR): LRR B	Landform (hillslope, terrace, etc.):	Floodplain			Local relief	(concave,	convex, none): flat	Slop	De: 0.09	% / 0.0
Soliday Unit Name 29A_Craquolis Otto 3 occent sloves Soliday Unit Name 29A_Craquolis Otto 3 occent sloves Soliday Otto O					8285		Long: -121 /729		Datum: N	— ——— AD 83
ver Vegetation , Soil , or Hydrology significantly disturbed? Are 'Normal Circumstances' present? Yes No No No No No No Normal Circumstances' present? Yes No No No No No No Normal Circumstances' present? Yes No No No No No No No No No N		. 0 to 2 may			.0203			ication: DEME		
No No No No No No No No	· · · · · · · · · · · · · · · · · · ·				. Voc	· O No			•	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No Wetland Hydrophytic Vegetation Hydrophytic Vegetation I (* plain) Hydrophytic Vegetation Present? Yes No Wespetation Hydrophytic Vegetation Present? Yes No We				•			,		s 🌘 No	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No within a Wetland yet within a Wetlan							•			
Hydrophytic Vegetation Present? Yes No		-								as etc
Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Wetland? Yes No No Within a Wetland? Yes No No No No No No No N				lowing sai			Trions, transcets,	important	reature	.3, 010.
Wetland Hydrology Present? Yes		_			Is the	Sampled A				
Name	•				withir	a Wetland	_{l?} Yes 💿 No 🔾			
VEGETATION - Use scientific names of plants. Dominant Species? Species Species? Species.	, ,,	res 🍛	NO U							
Note										
Species Spe	On-site determination.									
Species Spec	VECETATION Lice scien	tific nam	os of pla	ntc	Dominant					
Tree Stratum (Plot size:	VEGETATION - Ose scien	itilit lialli	ies oi pia		_Species?		·	-		
1.	Tree Stratum (Plot size:)								
2.	,			0	0.0%		Number of Dominant Spe That are OBL, FACW, or F	cies AC:	2	(A)
Sapling/Shrub Stratum (Plot size:)				0	0.0%		,			()
4. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/8) 1. 0 0.0% Prevalence Index worksheet: Total % Cover of: Multiply by: Multiply by: <td>2</td> <td></td> <td></td> <td>•</td> <td>0.0%</td> <td></td> <td></td> <td>nt</td> <td>2</td> <td>(B)</td>	2			•	0.0%			nt	2	(B)
Sapling/Shrub Stratum (Plot size:	4			0	0.0%					()
2.	Sapling/Shrub Stratum (Plot size:)	0	= Total Cov	er		•	100.0%	(A/B)
3.	1			0	0.0%		Prevalence Index work	sheet:		
4.	2			0	0.0%		Total % Cover of	: Multip	ly by:	
Description				0	0.0%		OBL specifes	50 x 1 =	60	_
Herb Stratum (Plot size:)							FACW specifies	40 x 2 =	80	_
Herb Stratum Plot size:	5			0	0.0%		FAC specifes	0 x 3 =	0	_
1. Scirpus americanus 2. Juncus balticus 3.	Horb Stratum (Diot size:	· ·		0	= Total Cov	er	FACO Speciles	^ -	0	_
2 Juncus balticus	,	,		60	1 60 0%	OPI	UPL speciles	<u>0</u> x 5 =	0	_
3	1.				_		Collumn Totals:1	(A)	140	(B)
4						171011	Prevalence Index	= B/A =	1.400	
5.					0.0%		Hydrophytic Vegetation	Indicators:		
6	5			0	0.0%					
8.					0.0%					
8.	7				0.0%		Morphological Ada	aptations 1 1.	rovide supr	oortina
10.							data in Remarks of	r on a separa	te sheet)	3
11. O O O.0% Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							Problematic Hydro	phytic Veget	ation 1 (¹ ເເ	olain)
Woody Vine Stratum (Plot size:) 1.										
1						er				gy must
2)							
0 = Total Cover Present? Yes ● No ○							I badaaa bada			
0 = Total Cover Present? Yes ● No ○	2						Vegetation	S (
% Bare Ground in Herb Stratum: 0 % Cover of Biotic Crust ()				0	= Total Cov	er		♥ No U		
	% Bare Ground in Herb Stratum	n: 0	%	Cover of Bioti	ic Crust ()					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix			dox Feat			bsence of indicators	,
	(moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-9 10YR	2/1	100%					Muck	
9-15 10YR	2/1	100%					Silt	
15-20 10YR	3/1	100%		-			Silt	
							-	
								_
ype: C=Concentration.	•					ins ² Loca		
ydric Soil Indicators:	(Applicat	le to all LR)		Indicators for Pro	oblematic Hydric Soils: ³
Histosol (A1) Histic Epipedon (A2)			Sandy Redox				1 cm Muck (A9	. ,
Black Histic (A3)			Stripped Matri		-1)		2 cm Muck (A1	, , ,
Hydrogen Sulfide (A4))		Loamy Mucky				Reduced Vertic	•
Stratified Layers (A5)	(LRR C)		Loamy Gleyed Depleted Matr		۷)		Red Parent Ma	` '
1 cm Muck (A9) (LRR	•		Redox Dark Si)		U Other (Explain	ın kemarks)
Depleted Below Dark	Surface (A1	1)	Depleted Dark	•	•			
Thick Dark Surface (A	12)		Redox depress		. • /		2	
Sandy Muck Mineral (S1)		☐ Vernal Pools (3 Indicators of hyd	rophytic vegetation and gy must be present.
Sandy Gleyed Matrix	(S4)						wettand nydroid	gy must be present.
estrictive Layer (if pre	esent):							
Type:							Hydric Soil Present	7 Vos 🏵 No 🖯
Type: Depth (inches): Remarks:							Hydric Soil Present	? Yes • No ·
Depth (inches):emarks:							Hydric Soil Present	? Yes • No ·
Depth (inches):emarks:	icators:						Hydric Soil Present	? Yes • No ·
Depth (inches):emarks: ydrology /etland Hydrology Ind		one require	d; check all that ap	(ylac				? Yes No No noicators (2 or more required)
Depth (inches):emarks: ydrology /etland Hydrology Ind		one require	d; check all that ap				Secondary I	
Depth (inches): emarks: ydrology /etland Hydrology Ind	nimum of (one require		311)			Secondary I	ndicators (2 or more required)
Depth (inches): ydrology /etland Hydrology Ind rimary Indicators (min Surface Water (A1) High Water Table (A2	nimum of (one require	Salt Crust (E	311) (B12)	(B13)		Secondary Water Ma	ndicators (2 or more required) orks (B1) (Riverine)
Depth (inches): emarks: ydrology fetland Hydrology Ind rimary Indicators (min Surface Water (A1) High Water Table (A2	nimum of (one require	Salt Crust (E	311) (B12) ertebrates			Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (inches): Jemarks: ydrology Vetland Hydrology Indirimary Indicators (min Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (No Sediment Deposits (B	nimum of one of	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Living	g Roots (C3	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) posits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (inches): demarks: ydrology /etland Hydrology Indirimary Indicators (min Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (No Sediment Deposits (B3) (No Drift deposits (B3))	nimum of one of the oriverine) 2) (Nonriverine) 2) (Nonriverine)	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of	311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Living Iron (C4)		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish	ndicators (2 or more required) urks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Depth (inches): demarks: ydrology /etland Hydrology Indirimary Indicators (minimary Indica	nimum of one of	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (inches): demarks: ydrology Vetland Hydrology Indicators (minimary Indicators (Minim	nimum of one of	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Surface (C	r (C1) s along Living Iron (C4) n in Plowed S		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) Dosits (B3) Riverine) Patterns (B10) Don Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Equitard (D3)
Depth (inches): Jemarks: ydrology /etland Hydrology Indirimary Indicators (minimary Indica	nimum of one of	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Surface (C	r (C1) s along Living Iron (C4) n in Plowed S		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
pepth (inches): emarks: ydrology retland Hydrology Indirimary Indicators (minimary Indicato	nimum of on onriverine) (2) (Nonriverine) oneriverine) (6) Aerial Imag	rine) ery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci	r (C1) s along Living Iron (C4) n in Plowed S		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) Dosits (B3) Riverine) Patterns (B10) Don Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Equitard (D3)
pepth (inches): emarks: ydrology retland Hydrology Indirimary Indicators (minimary Indicato	nimum of on onriverine) 2) (Nonriverine) coneriverine) 66) Aerial Imag (B9) Yes	rine) ery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci	r (C1) s along Living Iron (C4) n in Plowed S 7)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) Dosits (B3) Riverine) Patterns (B10) Don Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Equitard (D3)
Depth (inches): Permarks: Perma	onriverine) 2) (Nonriverine) 6) Aerial Imag (B9) Yes Yes	ery (B7) No • No •	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci	r (C1) s along Living Iron (C4) n in Plowed S	doils (C6)	Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A FAC-neut	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (inches): demarks: ydrology /etland Hydrology Ind rimary Indicators (min Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (No Sediment Deposits (B3) (N) Surface Soil Cracks (B) Inundation Visible on Water-Stained Leaves deld Observations: urface Water Present? //ater Table Present? aturation Present?	nimum of on onriverine) 2) (Nonriverine) coneriverine) 66) Aerial Imag (B9) Yes	ery (B7) No • No •	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C' ain in Rem	r (C1) s along Living Iron (C4) n in Plowed S 7)	doils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (inches): Remarks: Pydrology Vetland Hydrology Indirimary Indicators (minimary Indicators (minimary Indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nowas Sediment Deposits (B3) (Nowas Surface Soil Cracks (E2) Inundation Visible on	nimum of one one of one	rine) ery (B7) No No No No No No No No No No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem hes):	r (C1) s along Living Iron (C4) n in Plowed S 7) narks) 16	coils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A FAC-neut	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (inches): temarks: ydrology /etland Hydrology Ind rimary Indicators (min Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (No Sediment Deposits (B3) (N) Surface Soil Cracks (B) Inundation Visible on Water-Stained Leaves ield Observations: urface Water Present? //ater Table Present? aturation Present? includes capillary fringe)	nimum of one one of one	rine) ery (B7) No No No No No No No No No No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem hes):	r (C1) s along Living Iron (C4) n in Plowed S 7) narks) 16	coils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow A FAC-neut	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)

roject/Site: Deschutes LWI		City/County:	Sunriver/D	eschutes Sampling Date: 04-May-10
pplicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 103
nvestigator(s): John Gordon, Adam Merrill		Section, To	wnship, R	ange: S 33
Landform (hillslope, terrace, etc.): Shoreline		Local relief	(concave,	convex, none): flat Slope: 0.0% / 0.
subregion (LRR): LRR B	 Lat.: 43			Long.: -121.5352 Datum: NAD 83
). <i>1</i> / O ¬		NWI classification:
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope climatic/hydrologic conditions on the site typical for the		y v	• No (
re Vegetation	significantly			
re Vegetation , Soil , or Hydrology ,	naturally pro			eded, explain any answers in Remarks.)
<u> </u>	nowing sa	mpling po	omi ioca	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	_{d?} Yes ● No ○
Wetland Hydrology Present? Yes ● No ○				
Remarks:				
VEGETATION	.1.	5		
VEGETATION - Use scientific names of pla	ints.	DominantSpecies?		
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1. Pinus contorta	5	100.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
2		0.0%	TAO	That are OBL, FACW, OF FAC.
3		0.0%		Total Number of Dominant Species Across All Strata: 4 (B)
4.	0	0.0%		Species Across All Strata: 4 (B)
		= Total Cove	er	Percent of dominant Species That Arc ORL FACW, or FAC: 75.0% (A/B)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FACW, or FAC: 75.0% (A/B)
1. Salix geyeriana	40	✓ 88.9%		Prevalence Index worksheet:
2. Betula glandulosa	5	11.1%	OBL	Total % Cover of: Multiply by:
3	0	0.0%		0BL speci es55 x 1 =55
4	0	0.0%		FACW species50 x 2 =100
5	0	0.0%		FAC species5 x 3 =15
Herb Stratum (Plot size:	45	= Total Cove	er	FACU speci es $0 \times 4 = 0$
1. Carov aquatilis	50	✓ 50.0%	OBL	UPL speci es0 x 5 =0
0.1		✓ 50.0%	FACW	Column Totals: 110 (A) 170 (B)
2. Juncus ensiroilus 3		0.0%	TACV	Prevalence Index = B/A = 1.545
4		0.0%		Hydrophytic Vegetation Indicators:
5		0.0%		✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0 1
7	0	0.0%		☐ Morphological Adaptations 1 ¹ , rovide supporting
8,	0	0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10,		0.0%		
11	0100			¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:		- ISlai COV	-	be present, unless disturbed or problematic.
1	0	0.0%		
		0.0%		Hydrophytic
2.				
2		= Total Cove	er	Vegetation Procent? Yes • No
	0 Cover of Biot	= Total Cove	er	Present? Yes No

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

	ороочоч то чо				sence of indicators.)	
Depth Matrix	% Color (me	Redox Featu		Loc2	Texture	Domarko
		DIST) %	Type ¹	LOC-	rexture	Remarks
0-20 10YR 3/3 10						
		-				
1 Type: C=Concentration. D=Depletion. RN	I_Poducod Matrix CS	S-Covered or Coa	tod Sand Crain	s 21 ocat	ion: PL=Pore Lining. M=1	Aatriv
<u> </u>				is -Lucat		
Hydric Soil Indicators: (Applicable to)			ematic Hydric Soils: ³
Histosol (A1) Histic Epipedon (A2)		Redox (S5)			1 cm Muck (A9) (I	•
Black Histic (A3)		ed Matrix (S6)			2 cm Muck (A10)	(LRR B)
Hydrogen Sulfide (A4)		y Mucky Mineral (F			Reduced Vertic (F	18)
Stratified Layers (A5) (LRR C)		y Gleyed Matrix (F	2)		Red Parent Materi	al (TF2)
	Deple	ted Matrix (F3)			✓ Other (Explain in	Remarks)
1 cm Muck (A9) (LRR D)	Redox	C Dark Surface (F6)			
Depleted Below Dark Surface (A11)	Deple Deple	ted Dark Surface ((F7)			
Thick Dark Surface (A12)	Redox	depressions (F8)			3	
Sandy Muck Mineral (S1)	Uerna Verna	l Pools (F9)			Indicators of hydrop wetland hydrology	nytic vegetation and must be present
Sandy Gleyed Matrix (S4)						
Restrictive Layer (if present):						
Type:						
Depth (inches):					Hydric Soil Present?	Yes No
Remarks:						
Remarks:						
aquic moisture regime						
quic moisture regime						
quic moisture regime						
quic moisture regime Hydrology Wetland Hydrology Indicators:						
quic moisture regime lydrology Wetland Hydrology Indicators:					Secondary Ind	icators (2 or more required)
quic moisture regime lydrology Wetland Hydrology Indicators:		that apply) Crust (B11)			_	icators (2 or more required) (B1) (Riverine)
lydrology Netland Hydrology Indicators: Primary Indicators (minimum of one I	Salt				Water Marks	
iydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one i Surface Water (A1) High Water Table (A2)	Salt	Crust (B11)	(B13)		Water Marks Sediment De	(B1) (Riverine)
iydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one i Surface Water (A1) High Water Table (A2)	Salt Biot	Crust (B11) ic Crust (B12)			Water Marks Sediment De	(B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one in the surface Water (A1) Whigh Water Table (A2) Saturation (A3)	Salt Biot Aqu Hyd	Crust (B11) ic Crust (B12) atic Invertebrates	r (C1)	Roots (C3)	Water Marks Sediment De Drift Deposil Drainage Pa	(B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Biot Aqu Hyd	Crust (B11) ic Crust (B12) latic Invertebrates lrogen Sulfide Odo dized Rhizospheres	r (C1) s along Living	Roots (C3)	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season	(B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) W High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	Salt Biot Aqu Hyd Oxid	Crust (B11) ic Crust (B12) latic Invertebrates lrogen Sulfide Odo dized Rhizospheres sence of Reduced	r (C1) s along Living Iron (C4)		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) W High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)	Salt Biot Aqu Hyd Oxid	Crust (B11) ic Crust (B12) iatic Invertebrates lrogen Sulfide Odo dized Rhizospheres sence of Reduced ent Iron Reductior	r (C1) s along Living Iron (C4) n in Plowed So		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one in the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (1)	☐ Salt ☐ Biot ☐ Aqu ☐ Hyd ☐ Oxid ☐ Pres ☐ Rec B7) ☐ Thir	Crust (B11) ic Crust (B12) natic Invertebrates lrogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C	r (C1) s along Living Iron (C4) n in Plowed So 7)		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	(B1) (Riverine) sposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (1) Water-Stained Leaves (B9)	☐ Salt ☐ Biot ☐ Aqu ☐ Hyd ☐ Oxid ☐ Pres ☐ Rec B7) ☐ Thir	Crust (B11) ic Crust (B12) iatic Invertebrates lrogen Sulfide Odo dized Rhizospheres sence of Reduced ent Iron Reductior	r (C1) s along Living Iron (C4) n in Plowed So 7)		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V	(B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) W High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations:	Salt Biot Aqu Hyd Oxid Pres Rec B7) Thir	Crust (B11) ic Crust (B12) natic Invertebrates lrogen Sulfide Odo dized Rhizospheres sence of Reduced ent Iron Reduction in Muck Surface (Ci er (Explain in Rem	r (C1) s along Living Iron (C4) n in Plowed So 7)		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	(B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) W High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Biot Aqu Hyd Oxic Pres Rec Rec Oth Oth No De	Crust (B11) ic Crust (B12) natic Invertebrates lrogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C	r (C1) s along Living Iron (C4) n in Plowed So 7)		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	(B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) W High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations:	Salt Biot Aqu Hyd Oxic Pres Rec B7) Thir	Crust (B11) ic Crust (B12) natic Invertebrates lrogen Sulfide Odo dized Rhizospheres sence of Reduced ent Iron Reduction in Muck Surface (Ci er (Explain in Rem	r (C1) s along Living Iron (C4) n in Plowed So 7)		Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3) Test (D5)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one in the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Mater-Stained Leaves (B9)) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present?	Salt Biot Aqu Hyd Oxid Pres Rec Rec No No De	Crust (B11) ic Crust (B12) natic Invertebrates lrogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C' er (Explain in Rem	or (C1) s along Living Iron (C4) n in Plowed So 7) narks)	ils (C6)	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	(B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Mater-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Saturation Present? Yes Saturation Present? Yes	Balt Biot Aqu Hyd Oxid Pres Rec Rec No No De No De No De	Crust (B11) ic Crust (B12) iatic Invertebrates irogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C' er (Explain in Remete) epth (inches):	or (C1) s along Living Iron (C4) n in Plowed So 7) harks) 10	ils (C6) Wetla	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu FAC-neutral	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3) Test (D5)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one in the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Mater-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present?	Balt Biot Aqu Hyd Oxid Pres Rec Rec No No De No De No De	Crust (B11) ic Crust (B12) iatic Invertebrates irogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C' er (Explain in Remete) epth (inches):	or (C1) s along Living Iron (C4) n in Plowed So 7) harks) 10	ils (C6) Wetla	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu FAC-neutral	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3) Test (D5)
Aydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one in the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (in the water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present? Saturation Present? Yes	Balt Biot Aqu Hyd Oxid Pres Rec Rec No No De No De No De	Crust (B11) ic Crust (B12) iatic Invertebrates irogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C' er (Explain in Remete) epth (inches):	or (C1) s along Living Iron (C4) n in Plowed So 7) harks) 10	ils (C6) Wetla	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu FAC-neutral	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3) Test (D5)
Algorology Netland Hydrology Indicators: Primary Indicators (minimum of one in the surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (in the water Present? Nater Table Present? Yes Saturation Present? (includes capillary fringe)	Balt Biot Aqu Hyd Oxid Pres Rec Rec No No De No De No De	Crust (B11) ic Crust (B12) iatic Invertebrates irogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C' er (Explain in Remete) epth (inches):	or (C1) s along Living Iron (C4) n in Plowed So 7) harks) 10	ils (C6) Wetla	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu FAC-neutral	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3) Test (D5)
Aydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one I Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Ves Saturation Present? Saturation Present? Saturation Present? Secribe Recorded Data (stream gauge)	Balt Biot Aqu Hyd Oxic Pres Rec Rec No Oth Do No Do	Crust (B11) ic Crust (B12) iatic Invertebrates irogen Sulfide Odo dized Rhizosphere: sence of Reduced ent Iron Reduction in Muck Surface (C' er (Explain in Rem epth (inches): epth (inches):	or (C1) s along Living Iron (C4) n in Plowed So 7) harks) 10	ils (C6) Wetla	Water Marks Sediment De Drift Deposit Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu FAC-neutral	posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) itard (D3) Test (D5)

roject/Site: Deschutes County LWI		City/County:	Sunriver/D	eschutes	Sampling E	Oate: 06-Ma	ıy-10
pplicant/Owner: DESCHUTES COUNTY				State: OR	Samplin	g Point:	SP 104
nvestigator(s): John Gordon, Adam Merrill		Section, To	wnship, R	ange: S 34	T 20 S R	10 E	
Landform (hillslope, terrace, etc.): floodplain			-	convex, none): conca		-	 0.0% / 0.0
ubregion (LRR): LRR B	Lat.: 43		·	Long.: -121.5196			: NAD 83
• • •		7.7721		-	acification. D	_	
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		. Vac	• No (issification: R	ZUBH	
e climatic/hydrologic conditions on the site typical for this re Vegetation , Soil , or Hydrology	-			,	•	Yes •	No O
	significantly			lormal Circumstances			140 🔾
re Vegetation 🔲 , Soil 📙 , or Hydrology 🔲 ummary of Findings - Attach site map sho	naturally pro			eded, explain any ans			iros oto
<u> </u>	owing sa	inpling po	1111 1002	ations, transect	is, importa	iii ieatt	mes, etc.
Hydrophytic Vegetation Present? Yes No O		Is the	Sampled A	Area			
Hydric Soil Present? Yes No		within	a Wetland	d? Yes 💿 No 🤇			
Wetland Hydrology Present? Yes ● No ○							
Remarks:							
Fall River site.							
/EGETATION - Use scientific names of plan	its.	DominantSpecies?					
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test w	orksheet:		
Tree Stratum (Plot size:) 1. Pinus contorta	76 COVE	✓ 100.0%	FAC	Number of Dominant		4	(4)
2.		0.0%	FAC	That are OBL, FACW,	or FAC:	4	(A)
3.		0.0%		Total Number of Don		4	(D)
4.		0.0%		Species Across All Str	ata:	4	(B)
	10	= Total Cove		Percent of domina		100.00	V (4.15)
Sapling/Shrub Stratum (Plot size:		- 10101 0011		That Are OBL, FAC	CW, or FAC:	100.09	% (A/B)
1. Salix geyeriana	15	✓ 60.0%	FACW	Prevalence Index v	vorksheet:		
2. Betula glandulosa	10	40.0%	OBL	Total % Cove	er of: Mu	Itiply by:	
3	0	0.0%		OBL speciles	100 x 1	. = 10)0
4	0	0.0%		FACW species	15 x 2	? =3	0
5		0.0%		FAC speciles	10x a	3 =3	0
Herb Stratum (Plot size:	25	= Total Cove	er	FACU species	x 4	+ =	<u>) </u>
1. Caray aquatilis	80	✓ 88.9%	OBL	UPL speciies	x 5	S =)
O Caray mahrasannia	10	11.1%	OBL	Collumn Totals:	125 (A)	16	60 (B)
3.		0.0%	OBL	Prevalence Inc	dex = B/A =	1.280)
4		0.0%		Hydrophytic Vegeta		-	
5		0.0%		Dominance Te			
6		0.0%		✓ Prevalence In			
7	0	0.0%			Adaptations 1	1 rovide s	upportina
8,		0.0%		data in Remar	ks or on a sepa	rate sheet)
9		0.0%		Problematic H	ydrophytic Vec	jetation 1 (¹ (plain)
10		0.0%					
	90	= Total Cove	er	1 Indicators of hydbe present, unless	ric soil and we	tland hydro	ology must
Noody Vine Stratum (Plot size:							
1	0	0.0%					
	0	0.0%		Hydrophytic Vegetation			
2				veuetation		١	
2	0	= Total Cove	er	Present? Ye	es 💿 No C)	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Desc		ne aeptn nee				firm the a	bsence of indicators.)	
Берин	Matrix			dox Featu %		Loc2	Tourtumo	Domonico
(inches) Color (m 0-14 7.5YR			Color (moist)		Type ¹	LOC-	Texture	Remarks
	2.5/1						organic	
14-20 7.5YR	3/2						organic	
								_
			-				-	
1 Type: C=Concentration. D=	-Depletion	. RM=Reduce	d Matrix, CS=Cover	ed or Coat	ed Sand Grai	ns ² Loca	tion: PL=Pore Lining. M=	Matrix
Hydric Soil Indicators: (/	Applicabl	le to all LRR:	s, unless otherwis	e noted.)			Indicators for Prob	lematic Hydric Soils: ³
Histosol (A1)			Sandy Redox	(S5)			1 cm Muck (A9)	•
Histic Epipedon (A2)			Stripped Matri	x (S6)			2 cm Muck (A10)	•
Black Histic (A3)			Loamy Mucky	Mineral (F	1)		Reduced Vertic (I	` ,
Hydrogen Sulfide (A4)			Loamy Gleyed	l Matrix (F:	2)		Red Parent Mater	•
Stratified Layers (A5) (LI			Depleted Matr				Other (Explain in	
1 cm Muck (A9) (LRR D)			Redox Dark S	urface (F6))		Other (Explain in	Kemarksy
Depleted Below Dark Su		1)	Depleted Dark	Surface (F7)			
Thick Dark Surface (A12	•		Redox depres				2	
Sandy Muck Mineral (S1))		Vernal Pools (Indicators of hydrop wetland hydrology	phytic vegetation and
Sandy Gleyed Matrix (S4	1)			. ,			wettariu riyurology	must be present.
Restrictive Layer (if prese	ent):							
Туре:								
Depth (inches):							Hydric Soil Present?	Yes No
								100 - 110 -
Remarks:							,	1.00 - 1.0 -
	very wet	and uncons	olidated except 0	-1/1" is ve	ary full of re	nots makir		
Remarks: Depths approximate; soil v	very wet	and uncons	olidated except 0	-14" is ve	ery full of ro	oots maki		
	very wet	and uncons	olidated except 0	-14" is ve	ery full of ro	oots maki		
	very wet	and uncons	olidated except 0	-14" is ve	ery full of ro	oots maki		
Depths approximate; soil v	very wet	and uncons	olidated except 0	-14" is ve	ery full of ro	oots maki		
Depths approximate; soil v		and uncons	olidated except 0	-14" is ve	ery full of ro	oots maki		
Pepths approximate; soil well and sold with the soil well and sold well as the sold well and sold well as the sold	ators:				ery full of ro	oots maki	ng extraction of sample	e difficult
lydrology Wetland Hydrology Indica	ators:		; check all that ap	(ylad	ery full of ro	oots maki	ng extraction of sample	e difficult dicators (2 or more required)
Hydrology Wetland Hydrology Indica Primary Indicators (minin Surface Water (A1)	ators:		; check all that ap	y)(y)(311)	ery full of ro	oots maki	Secondary Inc	dicators (2 or more required) s (B1) (Riverine)
Hydrology Wetland Hydrology Indicators (minin Surface Water (A1) High Water Table (A2)	ators:		; check all that ap	oply) 311) (B12)		oots maki	Secondary Inc. Water Mark	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine)
Hydrology Wetland Hydrology Indicators (mining Surface Water (A1) High Water Table (A2) Saturation (A3)	ators: num of o		; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates	(B13)	oots maki	Secondary Inc Water Mark Sediment D Drift Depos	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine)
Aydrology Netland Hydrology Indicators (minin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri	ators: num of o	one required	check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo	(B13) r (C1)		Secondary Inc Secondary Inc Water Mark Sediment D Drift Depos	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10)
Aydrology Wetland Hydrology Indicators (minin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2)	ators: num of o iverine) (Nonriveri	one required	; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo izospheres	(B13) r (C1) s along Living		Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) tts (B3) Riverine) atterns (B10) Water Table (C2)
Hydrology Wetland Hydrology Indica Primary Indicators (minin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) Drift deposits (B3) (Nonci	ators: num of o iverine) (Nonriveri	one required	; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen So Oxidized Rh Presence of	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced	(B13) r (C1) s along Living Iron (C4)	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) sterns (B10) Water Table (C2) rrows (C8)
Hydrology Wetland Hydrology Indica Primary Indicators (minin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) Drift deposits (B3) (None Surface Soil Cracks (B6)	ators: num of o iverine) (Nonriveri eriverine)	one required	scheck all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reduction	(B13) r (C1) s along Living lron (C4) n in Plowed S	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Orayfish Bu Saturation N	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Hydrology Wetland Hydrology Indicators (mining) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonroll Sediment Deposits (B2) Drift deposits (B3) (Noncoll Surface Soil Cracks (B6) Inundation Visible on Ae	ators: num of o iverine) (Nonriveri eriverine)	one required	; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C7	(B13) r (C1) s along Living lron (C4) n in Plowed S	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Depths approximate; soil working to be	ators: num of o iverine) (Nonriveri eriverine)	one required	scheck all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C7	(B13) r (C1) s along Living lron (C4) n in Plowed S	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Orayfish Bu Saturation N	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Hydrology Wetland Hydrology Indicators (minin V Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (B	ators: num of o iverine) (Nonriveri eriverine) erial Image	ine)	; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C7	(B13) r (C1) s along Living lron (C4) n in Plowed S	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Hydrology Wetland Hydrology Indica Primary Indicators (minin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E	ators: num of o iverine) (Nonriveri eriverine)	ine)	; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C7	(B13) r (C1) s along Living lron (C4) n in Plowed S	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Pepths approximate; soil well- Hydrology Wetland Hydrology Indicators (mining) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonring) Sediment Deposits (B2) Drift deposits (B3) (Nonring) Surface Soil Cracks (B6) Inundation Visible on Ae	ators: num of o iverine) (Nonriveri eriverine) erial Image	one required ine) ery (B7) • No	scheck all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C7 ain in Rem	(B13) r (C1) s along Living lron (C4) n in Plowed S r r arks)	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //isible on Aerial Imagery (C9) uitard (D3) Test (D5)
Primary Indicators (minin Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) Drift deposits (B3) (Nonei Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (E Field Observations: Surface Water Present?	iverine) (Nonriverieriverine) erial Image 39) Yes Yes	ine) Pery (B7) No O No O	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C7 ain in Rem	(B13) r (C1) s along Living Iron (C4) n in Plowed S r r arks)	Roots (C3	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) uitard (D3) Test (D5)
Pepths approximate; soil was approximate; so	iverine) (Nonriverieriverine) Yes Yes Yes	ine) No O No O No O	check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Gurface (C7 ain in Rem whes):	(B13) r (C1) s along Living lron (C4) n in Plowed S r n arks)	Roots (C3 pils (C6) Wetla	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu FAC-neutral	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) uitard (D3) Test (D5)
Pepths approximate; soil was approximate, soil was approximate; soil was approximate, so	iverine) (Nonriverieriverine) Yes Yes Yes	ine) No O No O No O	check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Gurface (C7 ain in Rem whes):	(B13) r (C1) s along Living lron (C4) n in Plowed S r n arks)	Roots (C3 pils (C6) Wetla	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu FAC-neutral	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) uitard (D3) Test (D5)
Aydrology Wetland Hydrology Indicators (mining) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrology Indicators (B2) Drift deposits (B3) (Nonrology Indicators (B3) Drift deposits (B3) (Nonrology Indicators (B4) Drift deposits (B3) (Nonrology Indicators (B6) Inundation Visible on Ae Water-Stained Leaves (B4) Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe)	iverine) (Nonriverieriverine) Yes Yes Yes	ine) No O No O No O	check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Gurface (C7 ain in Rem whes):	(B13) r (C1) s along Living lron (C4) n in Plowed S r n arks)	Roots (C3 pils (C6) Wetla	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu FAC-neutral	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) uitard (D3) Test (D5)
Aydrology Netland Hydrology Indicators (mining V Surface Water (A1) V High Water Table (A2) V Saturation (A3) Water Marks (B1) (Nonring Sediment Deposits (B2) Drift deposits (B3) (Nonring Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (B5) Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe)	iverine) (Nonriverieriverine) Yes Yes Yes	ine) No O No O No O	check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Gurface (C7 ain in Rem whes):	(B13) r (C1) s along Living lron (C4) n in Plowed S r n arks)	Roots (C3 pils (C6) Wetla	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu FAC-neutral	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) uitard (D3) Test (D5)
Iydrology Netland Hydrology Indicators (minin ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonri Sediment Deposits (B2) Drift deposits (B3) (Nonci Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (Ba) Water Table Present? Nater Table Present? Saturation Present? Saturation Present? Sincludes capillary fringe) Describe Recorded Data (A)	iverine) ((Nonriverieriverine) Yes Yes ((stream (ine) No No No Ogauge, moni	Salt Crust (E Salt Crust (E Shotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Gurface (C7 ain in Rem whes):	(B13) r (C1) s along Living lron (C4) n in Plowed S r n arks)	Roots (C3 pils (C6) Wetla	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation N Shallow Aqu FAC-neutral	dicators (2 or more required) s (B1) (Riverine) eposits (B2) (Riverine) its (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) uitard (D3) Test (D5)

Project/Site: Deschutes LWI		City/County:	Summer/ De	escriates	Sampling Da	te: 06-May-	10
Applicant/Owner: Deschutes County				State: OR	Sampling	Point:	SP 106
Investigator(s): Alessandra Capretti, Adam Merrill		Section, To	wnship, Ra	ange: \$ 35 T_2	20 S R 1	0 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): flat	Slo	pe : 0.0	<u>/0.0</u>
Subregion (LRR): LRR B	Lat.: 43	3.8007		Long.: -121.5055	_	Datum: N	NAD 83
oil Map Unit Name: Not available				NWI class	ification:		
e climatic/hydrologic conditions on the site typical for this	time of year?	Yes	● No ○	(If no, explain in	Remarks.)		
	significantly of		Are "N	ormal Circumstances" p	resent? Y	es 💿 No	0 🔾
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturally prol	blematic?	(If nee	eded, explain any answe	ers in Remarks	:)	
Summary of Findings - Attach site map sh							es, etc.
Hydrophytic Vegetation Present? Yes No		ls tho	Sampled A	uroa.	-		
Hydric Soil Present? Yes ● No ○			•	vaa 📵 Na 🔾			
Wetland Hydrology Present? Yes ● No ○		within	a Wetland	1? 163 © 110 ©			
Remarks:		·					
WEGETATION. Her estantific names of plan		Dominant					
VEGETATION - Use scientific names of plan		DominantSpecies?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test work			
1	0	0.0%		Number of Dominant Sp That are OBL, FACW, or		4	(A)
2.		0.0%					
3		0.0%		Total Number of Domina Species Across All Strata		4	(B)
4	0	0.0%					
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of dominant That Are OBL, FACW		100.0%	(A/B)
1. Salix geyeriana	25	100.0%	FACW	Prevalence Index wor	ksheet:		
2	0	0.0%		Total % Cover	of: Multi	oly by:	
3		0.0%		OBL speci es	80 x 1	= 80	_
4 5.		0.0%		FACW species	45 x 2		_
J	0	0.0%		FAC speciles	<u>0</u> x 3		_
Herb Stratum (Plot size:	25	= Total Cove	er	FACU speci es	0 x 4 :		_
1 Carex nebrascensis	40	✓ 40.0%	OBL	UPL speci es —	x 5		_
2 Carex aquatilis	40	40.0%	OBL	Column Totals:	125 (A)	170	(B)
3. Juncus balticus	20	20.0%	FACW	Prevalence Index	c = B/A =	1.360_	
4		0.0%		Hydrophytic Vegetation	on Indicators:		
5		0.0%		✓ Dominance Test	is > 50%		
6		0.0%		✓ Prevalence Inde	x is ≤3.0 ¹		
7	0	0.0%		Morphological Ac	daptations 1 1	rovide sup	porting
8,		0.0%		data in Remarks	-		
9 10		0.0%		Problematic Hyd	rophytic Vege	ation 1 (plain)
11		0.0%					
	100	= Total Cove	er	1 Indicators of hydric be present, unless dis			ogy must
Woody Vine Stratum (Plot size:							
1,		0.0%		Hydrophytic			
2				Vegetation	No ○		
	0	= Total Cove	:1	Present? Yes	→ NO ○		
% Bare Ground in Herb Stratum: () %	Cover of Biotic	- C+ O					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (Des		чор							
Depth		Matrix				ox Featu				
(inches)	Color (n		<u>%</u> _	Color (n		%	Type ¹	Loc2	Texture	Remarks
0-4	10YR	3/3		2.5YR	4/6	20%		M	Silt Loam	root mass
4-10	10YR	3/3	80%	2.5YR	4/6	20%	C	М	Silt Loam	
10-14	10YR	3/1	80%	2.5YR	4/6	20%	С	M	Loam	
14-20	10YR	3/3	80%	2.5YR	4/6	20%	C	М	Silt Loam	
										<u> </u>
Type: C=Co	ncentration. D	=Depletior	n. RM=Reduc	ed Matrix, (CS=Covere	d or Coate	ed Sand Gra	ins ² Loc	ation: PL=Pore Lining	g. M=Matrix
_	Indicators:	(Applicab	le to all LRF						Indicators for	Problematic Hydric Soils: ³
Histosol (dy Redox (1 cm Muck ((A9) (LRR C)
	pedon (A2)				oped Matrix				2 cm Muck ((A10) (LRR B)
Black His	นะ (A3) า Sulfide (A4)			Loar	my Mucky I	Mineral (F	1)		Reduced Ve	rtic (F18)
	Layers (A5) (I	DD C)		Loar	my Gleyed	Matrix (F2	2)		Red Parent I	Material (TF2)
	ck (A9) (LRR D			Depl	leted Matri	x (F3)			Other (Expla	ain in Remarks)
	Below Dark S	•	1\	Redo	ox Dark Su	rface (F6)				
_ '	rk Surface (A1:	•	1)	Depl	leted Dark	Surface (F	F7)			
	uck Mineral (S	•		Redo	ox depress	ions (F8)			3 Indicators of h	ydrophytic vegetation and
_	eyed Matrix (S			Verr	nal Pools (F	9)			wetland hydr	ology must be present.
	eyeu matrix (3	4)								
Doctriativa L	aver (if pres	ont).								
	ayer (if pres	ent):								
Type:		ent):							Hydric Soil Prese	ent? Yes • No O
Type: Depth (inc		ent):							Hydric Soil Prese	ent? Yes • No O
Type:		ent):							Hydric Soil Prese	ent? Yes • No O
Type: Depth (ind Remarks:			ON HYDRO	LOGY IND	ICATORS	AND WE	ETLAND VE	GETATIC		ent? Yes • No O
Type: Depth (ind Remarks:	ches):		ON HYDRO	LOGY IND	ICATORS	AND WE	ETLAND VE	GETATIO		ent? Yes • No O
Type: Depth (ind Remarks:	ches):		ON HYDRO	LOGY IND	ICATORS	AND WE	ETLAND VE	GETATIC		ent? Yes • No ·
Type: Depth (inc Remarks: YDRIC SOII	ches):		ON HYDRO	LOGY IND	ICATORS	AND WE	ETLAND VE	GETATIC		ent? Yes • No O
Type:	ches):LS ASSUMED	BASED (ON HYDRO	LOGY IND	ICATORS	AND WE	ETLAND VE	GETATIC		ent? Yes No
Type:	ches):	BASED (ON HYDRO	LOGY IND	ICATORS	AND WE	ETLAND VE	GETATIC	DN.	
Type:	ches):LS ASSUMED	BASED (ETLAND VE	GETATIC	DN.	ent? Yes • No ·
Type:	ches): LS ASSUMED Y drology Indic	BASED (d; check a		oly)	ETLAND VE	GETATIC	Secondar	
Type:	ches): LS ASSUMED y drology Indicitators (mini	BASED (d; check a	ll that app	oly) 11)	ETLAND VE	GETATIO	Secondar Water	y Indicators (2 or more required)
Type:	y drology Indicitators (mini Water (A1) ter Table (A2)	BASED (d; check a	II that app	oly) 11) [B12)		GETATIO	Secondar Water Sedime	y Indicators (2 or more required) Marks (B1) (Riverine)
Type:	y drology Indicitators (mini Water (A1) ter Table (A2)	BASED (d; check a	II that app alt Crust (B otic Crust (oly) 11) B12) rtebrates ((B13)	GETATIO	Secondar Water Sedime	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3)	BASED (cators: mum of co	one required	d: check al	II that app alt Crust (B otic Crust (quatic Inver	oly) 11) B12) rtebrates ((B13)		Secondar Water Sedime	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) Jeposits (B3) Riverine)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non	BASED (cators: mum of co	one required	d; check a Sa Bit Aq Hy	II that app alt Crust (B otic Crust (quatic Inver	oly) 11) (B12) rtebrates (Ilfide Odor zospheres	(B13) · (C1) along Living		Secondar Water Sedim Drift D Draina Dry Se	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) Ige Patterns (B10)
Type:	y drology Indicitators (minivater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2)	eators: mum of contriverine) (Nonriverine)	one required	d; check a Sa Bic Ac Hy Ox	II that appoint of the control of th	oly) 11) (B12) rtebrates (Ilfide Odor zospheres Reduced I	(B13) · (C1) along Living	g Roots (C:	Secondar Water Sedim Drift D Draina Dry Se Crayfis	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) age Patterns (B10) deason Water Table (C2)
Type:	y drology Indicitators (minimater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor	eators: mum of contriverine) (Nonriverine) heriverine)	one required	d; check a Sa Bio Ac Hy Pro Re	II that appoint of the control of th	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction	(B13) (C1) along Livinç ron (C4) in Plowed S	g Roots (C:	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6)	eators: mum of contriverine) (Nonriverine) (Nonriverine) erial Image	one required	d; check a Sa Bio Ac Hy Pro Re	II that appart of the control of the	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7	(B13) (C1) along Living ron (C4) in Plowed S	g Roots (C:	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) age Patterns (B10) deason Water Table (C2) sh Burrows (C8) attion Visible on Aerial Imagery (C9)
Type:	y drology Indicitators (minimater (A1) for Table (A2) for (A3) for (B1) (Non for Deposits (B2) for (B3) (Nor for (B3) (B3) (Nor for (B3) (Nor	eators: mum of contriverine) (Nonriverine) (Nonriverine) erial Image	one required	d; check a Sa Bio Ac Hy Pro Re	Il that appart of the control of the	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7	(B13) (C1) along Living ron (C4) in Plowed S	g Roots (C:	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9)
Type:	y drology Indicitators (minimater (A1) for Table (A2) for (A3) for (B1) (Non for Deposits (B2) for (B3) (Nor for (eators: mum of contriverine) (Nonriverine) (Nonriverine) erial Image	one required ine) ery (B7)	d; check a Sa Bit Aq Hy Ox Th	Il that appart of the control of the	oly) 11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(B13) (C1) along Living ron (C4) in Plowed S	g Roots (C:	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6 on Visible on A ained Leaves (vations: r Present?	eators: mum of contriverine) ((Nonriverineriverine)) erial Image (B9)	ine) Pery (B7) No	d: check al	Il that appoint of the control of th	oly) 11) 11) 1812) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	g Roots (C:	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) eason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor soil Cracks (B6 on Visible on A ained Leaves (vations: r Present?	riverine) ((Nonriverine)) (erial Image B9) Yes	one required ine) ery (B7) No • No •	d; check a Sa Bit Aq Hy Ox Tr Ot	II that appoint Crust (Bushell Crust (Guatic Inversed) If ydrogen Sundized Rhizesence of Incept Iron In Muck Sunther (Explaint)	oly) 11) 11) 1812) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	g Roots (C3 oils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deason Water Table (C2) deason Water Table (C2) definition Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6 on Visible on A ained Leaves (vations: r Present?	eators: mum of contriverine) ((Nonriverineriverine)) erial Image (B9)	one required ine) ery (B7) No • No •	d; check a Sa Bit Aq Hy Ox Tr Ot	Il that appoint of the control of th	oly) 11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	g Roots (C3 oils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deason Water Table (C2) deason Water Table (C2) definition Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6 on Visible on A ained Leaves (vations: r Present?	p BASED (cators: mum of contriverine) ((Nonriverine)) (erial Image (B9) Yes (Yes (one required ine) Pery (B7) No No No No No No No No No No	d: check al Sa Bio Hy Ox Pro Re Th Ot	Il that appoint Crust (But Crust (But Crust (But Crust (But Crust (But Crust (But Crust)) Il the Crust (But Crust) Il that appoint	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	g Roots (C3 oils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deason Water Table (C2) deason Water Table (C2) definition Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6 on Visible on A ained Leaves (vations: r Present? esent? llary fringe)	p BASED (cators: mum of contriverine) ((Nonriverine)) (erial Image (B9) Yes (Yes (one required ine) Pery (B7) No No No No No No No No No No	d: check al Sa Bio Hy Ox Pro Re Th Ot	Il that appoint Crust (But Crust (But Crust (But Crust (But Crust (But Crust (But Crust)) Il the Crust (But Crust) Il that appoint	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	g Roots (C3 oils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deason Water Table (C2) deason Water Table (C2) definition Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6 on Visible on A ained Leaves (vations: r Present? esent? llary fringe)	p BASED (cators: mum of contriverine) ((Nonriverine)) (erial Image (B9) Yes (Yes (one required ine) Pery (B7) No No No No No No No No No No	d: check al Sa Bio Hy Ox Pro Re Th Ot	Il that appoint Crust (But Crust (But Crust (But Crust (But Crust (But Crust (But Crust)) Il the Crust (But Crust) Il that appoint	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	g Roots (C3 oils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deason Water Table (C2) deason Water Table (C2) definition Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Type:	y drology Indicitators (mini Nater (A1) ter Table (A2) n (A3) arks (B1) (Non t Deposits (B2) osits (B3) (Nor Soil Cracks (B6 on Visible on A ained Leaves (vations: r Present? esent? llary fringe)	p BASED (cators: mum of contriverine) ((Nonriverine)) (erial Image (B9) Yes (Yes (one required ine) Pery (B7) No No No No No No No No No No	d: check al Sa Bio Hy Ox Pro Re Th Ot	Il that appoint Crust (But Crust (But Crust (But Crust (But Crust (But Crust (But Crust)) Il the Crust (But Crust) Il that appoint	oly) 11) B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	g Roots (C3 oils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deason Water Table (C2) deason Water Table (C2) definition Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)

Project/Site: Deschutes LWI		City/County:	Sunriver/D	eschutes Sampling Date: 06-May-10
applicant/Owner: Deschutes County				State: OR Sampling Point: SP 107
nvestigator(s): Alessandra Capretti, Adam Merrill		Section, To	wnship, R	range: S 35 T 20 S R 10 E
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): flat Slope: 0.0% / 0.0
ubregion (LRR): LRR B	 Lat.: 4;			Long.: -121.5029 Datum: NAD 83
oil Map Unit Name: N/A				NWI classification:
climatic/hydrologic conditions on the site typical for this	time of year?	yes	. ● No ○	
re Vegetation	significantly			Jormal Circumstances" present? Yes ● No ○
				•
3 — , — , 3 —	naturally pro			eded, explain any answers in Remarks.)
•	lowing sai	mpling po	omi ioca	ations, transects, important features, etc.
lydrophytic Vegetation Present? Yes • No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	_{d?} Yes ◉ No ○
Vetland Hydrology Present? Yes ● No ○				
Remarks:				
/EGETATION - Use scientific names of pla	nts	Dominant		
- Colifficial Colorada in Indiana of pla	Absolute	Species? Rel.Strat.	Indicator	Dominance Test worksheet:
ree Stratum (Plot size:	% Cover		Status	
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata: 3 (B)
4		0.0%		Dercent of deminant Charles
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix geyeriana	10	1 00.0%	FACW	Prevalence Index worksheet:
2.	0	0.0%		Total % Cover of: Multiply by:
3.		0.0%		0BL species 100 x 1 = 100
4	0	0.0%		FACW species 10 x 2 = 20
5	0	0.0%		FAC species $0 \times 3 = 0$
	10	= Total Cov	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:	00	2 22 224	ODI	UPL speci es
1 Carex aquatilis 2 Carex nebrascensis		✓ 80.0% ✓ 20.0%	OBL	Column Totals: 110 (A) 120 (B)
2. Carex nebrascensis 3.		0.0%	UBL	Prevalence Index = B/A = 1.091
4.		0.0%		Hydrophytic Vegetation Indicators:
5		0.0%		✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0
7	0	0.0%		☐ Morphological Adaptations 1 ¹ / ₂ rovide supporting
8		0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10		0.0%		
	Ω			
	0100	= Total Cove	er	1 Indicators of hydric soil and wetland hydrology must
11.			er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
11	100		er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
11	100	= Total Cove	er 	be present, unless disturbed or problematic. Hydrophytic
10,	0	= Total Cov		be present, unless disturbed or problematic.

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth _	Ma	atrix		Red	dox Featu	ures			
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-6	10YR	3/4	100%					Silt Loam	gravelly, Thick root mas
6-20	10YR	3/2	100%					Silty Clay	gravel l y
ydric Soil In Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 1 cm Muck Depleted Be Thick Dark Sandy Muck	dicators: (Ap 1) edon (A2) (A3)	pplicable R C)	le to all LRR	ed Matrix, CS=Covers, unless otherwis Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark Stripped Depleted Dark Redox depress Vernal Pools (ice noted.) (S5) (x (S6) Mineral (F I Matrix (F rix (F3) urface (F6) (sions (F8)) 	ins ² Loca	1 cm Muck (2 cm Muck (Reduced Vei Red Parent I Other (Expla	Problematic Hydric Soils: ³ A9) (LRR C) A10) (LRR B) rtic (F18) Material (TF2)
Type: Depth (inche		nt):						Hydric Soil Prese	ent? Yes No
Туре:	es):	nt):						Hydric Soil Prese	ent? Yes • No O
Type:	ure regime	tors:							
Type:	ure regime ology Indicat	tors:	ne requirec	; check all that ap				Secondar	y Indicators (2 or more required)
Type: Depth (inche emarks: raquic moistr rdrology etland Hydro imary Indica Surface Wa	ure regime ology Indicate ators (minimulater (A1)	tors:	ne requirec	Salt Crust (E	311)			Secondary	y Indicators (2 or more required) Marks (B1) (Riverine)
Type:	ure regime blogy Indicate ators (minimulater (A1) Table (A2)	tors:	ne required	Salt Crust (E	311) (B12)	(0.50)		Secondar Water Sedime	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Type: Depth (inche emarks: raquic moists rdrology etland Hydro imary Indica Surface Wa High Water Saturation (ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3)	tors: um of o	ne requirec	Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates			Secondary Water Sedime	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine)
Type: Depth (inche emarks: raquic moists rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) ss (B1) (Nonriv	tors: um of o		Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates ulfide Odo	r (C1)		Secondar Water Sedime Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10)
Depth (inche emarks: raquic moist) rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tors: um of o		Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Livin	g Roots (C3	Secondary Water Sedime Drift D Draina	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2)
Depth (inche emarks: raquic moistre emarks: raquic moistre estand Hydro estand Hydr	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tors: um of o		Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Livin Iron (C4)		Secondary Water Sedime Drift D Drainae Dry Se Crayfis	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8)
Depth (inche emarks: raquic moisting aduic moisting	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) ss (B1) (Nonriv Deposits (B2) (I its (B3) (Noner I Cracks (B6)	tors: um of o rerine) Nonriveri riverine)	ine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Livin		Secondary Water Sedime Drift D Drainae Dry Se Crayfis	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2)
Depth (inche emarks: aquic moistre emarks: aquic moistre emarks: aquic moistre emary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tors: um of o rerine) Nonriveri riverine)	ine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Secondary Water Sedime Drift D Draina Dry Se Crayfis Satura	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8)
Type:	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) ss (B1) (Nonriv Deposits (B2) (I its (B3) (Noner I Cracks (B6)	tors: um of o verine) Nonriveri riverine)	ine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Surface (CT	r (C1) s along Living Iron (C4) n in Plowed S		Secondary Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9)
Type: Depth (inche emarks: aquic moistre emarks: aquic moistre emarks: aquic moistre emark Indica emary Indica emary Indica emark Indic	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tors: um of o verine) Nonriveri riverine) ial Image	ine) ery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (CT	r (C1) s along Living Iron (C4) n in Plowed S		Secondary Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) v Aquitard (D3)
Type: Depth (inche emarks: raquic moistre addition moistre additional moistre addition	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tors: um of o Nonriveri riverine) ial Image) Yes	ery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (CT	r (C1) s along Living Iron (C4) n in Plowed S		Secondary Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) v Aquitard (D3)
Type:	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A6) (A6) (A7) (A7) (A7) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	tors: um of o verine) Nonriveri riverine) ial Image	ery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed S		Secondary Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) v Aquitard (D3) eutral Test (D5)
Depth (inche emarks: raquic moisting and process of the content of	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) ss (B1) (Nonriv Deposits (B2) (I its (B3) (Noner I Cracks (B6) Visible on Aeri ned Leaves (B9) tions: Present? esent? ent? ery fringe)	tors: um of o Nonriveririverine) ial Image) Yes Yes	ine) ery (B7) No No No No No No No No No No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed \$ 7) harks)	Goils (C6)	Secondary Water Sedime Drift D Draina Ory Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) v Aquitard (D3) eutral Test (D5)
Depth (inche emarks: raquic moisting and process of the content of	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) ss (B1) (Nonriv Deposits (B2) (I its (B3) (Noner I Cracks (B6) Visible on Aeri ned Leaves (B9) tions: Present? esent? ent? ery fringe)	tors: um of o Nonriveririverine) ial Image) Yes Yes	ine) ery (B7) No No No No No No No No No No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed \$ 7) harks)	Goils (C6)	Secondary Water Sedime Drift D Draina Ory Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) v Aquitard (D3) eutral Test (D5)
Depth (inche emarks: raquic moisting and moi	ure regime blogy Indicate ators (minimulater (A1) Table (A2) (A3) ss (B1) (Nonriv Deposits (B2) (I its (B3) (Noner I Cracks (B6) Visible on Aeri ned Leaves (B9) tions: Present? esent? ent? ery fringe)	tors: um of o Nonriveririverine) ial Image) Yes Yes	ine) ery (B7) No No No No No No No No No No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed \$ 7) harks)	Goils (C6)	Secondary Water Sedime Drift D Draina Ory Se Crayfis Satura Shallov FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) v Aquitard (D3) eutral Test (D5)

roject/Site: Deschutes LWI		City/County:	Sunriver/D	Deschutes Sampling Date: 06-May-10
pplicant/Owner: Deschutes County				State: OR Sampling Point: SP 108
nvestigator(s): Alessandra Capretti, Adam Merrill		Section, To	wnship, R	Pange: S 35
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): flat Slope: 0.0% / 0.0
subregion (LRR): LRR B	 Lat.: 4			Long.: -121.5034 Datum: NAD 83
		3.7743		NWI classification: PSSC
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent sloped climatic/hydrologic conditions on the site typical for the		y Vas	• No (
re Vegetation	significantly			No O
				•
re Vegetation	naturally pro			eded, explain any answers in Remarks.)
<u> </u>	snowing sa	mpling po	oint ioca	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	d? Yes ● No ○
Wetland Hydrology Present? Yes ● No ○				
Remarks:				
VEGETATION - Use scientific names of pl	ants	Dominant		
720217111011	Absolute	Species? Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover		Status	Number of Dominant Species
1. Pinus contorta	10	100.0%	FAC	That are OBL, FACW, or FAC:5(A)
2	0	0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: 5 (B)
4		0.0%		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	10	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Betula glandulosa	5	1 00.0%	OBL	Prevalence Index worksheet:
Salix geyeriana	0	0.0%	FACW	Total % Cover of: Multiply by:
3	0	0.0%		0BL speci es55x 1 =55
4.	0	0.0%		FACW species 50 x 2 = 100
5.	0	0.0%		FAC speciles 10 x 3 = 30
	5	= Total Cove	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:				UPL speci es x 5 = 0
1 Juncus balticus		50.0%	FACW	Column Totals:115 (A)185 (B)
Carex aquatilis Carex nebrascensis		✓ 30.0% ✓ 20.0%	OBL	Prevalence Index = B/A = 1.609
4.		0.0%	OBL	
5		0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0
7		0.0%		Morphological Adaptations 1 ¹ , 'rovide supporting
8		0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10,		0.0%		
11,				1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:	100	- 10tal COV	71 71	be present, unless disturbed or problematic.
	0	0.0%		
1		0.0%		Hydrophytic
2.				
2		= Total Cove	er	Vegetation Present? Yes No
	0 % Cover of Bioti		er	Vegetation Present? Yes ● No ○

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Color Col	Profile Desci	ription: (Des	scribe to 1	the depth n	eeded to				nfirm the a	bsence of indicators.)
0-4	0-H 10YR 3/3 80% 2.5YR 4/6 20% C M		0-1			0-1 (1 2	Tankina
4 10 10/R 3/3 80% 2.5 YR 4/A 20% C M 10-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 3/1 80% 2.5 YR 4/A 20% C M 11-20 10/R 4/A 20%	4-10 10YR 3/3 80% 2.5YR 4/6 20% C M 10-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 3/1 80% 2.5YR 4/6 20% C M 11-20 10YR 4/6 80% (188 C) 11-20 10YR 4/6 80% (198 C) 11-20 10										
1 Type: C-Concentration. D-Depletion. RM-Reduced Matrix, CS-Covered or Coated Sand Grains	1 10 20 10 10 10 10 10	0-4	10YR	3/3	80%	2.5YR	4/6	20%	C	M	Toot mass
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2-Location: Pt=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)	1 Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coaled Sand Grains 2 Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) History	4-10	10YR	3/3	80%	2.5YR	4/6	20%	C	M	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	10-20	10YR	3/1	80%	2.5YR	4/6	20%	С	M	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)			-	-						·
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2)	1 Type: C=Cor	ncentration D)=Denletio	n RM=Reduc	ed Matrix	CS=Covere	ed or Coat	ed Sand Gra	ains 21 oca	tion: PI =Pore Lining M=Matrix
Histosof (A1)	Histic Epipedon (A2)			•						1113 LOCA	
Histic Epipedon (A2)	Histic Epipedon (A2)	l —									
Black Histic (A3)	Black Histic (A3)	Histic Epi	pedon (A2)			Stri	pped Matri	x (S6)			
Loamy Cleyed Matrix (F2)	Hydrogen Sullide (A4)					Loa	ımy Mucky	Mineral (F	1)		
1 cm Muck (A9) (IRR D)	1 cm Muck (A9) (LRR D)					Loa	ımy Gleyed	Matrix (F2	2)		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present.	Depleted Below Dark Surface (A11)		•			De _l	oleted Matr	ix (F3)			✓ Other (Explain in Remarks)
Thick Dark Surface (A12)	Thick Dark Surface (A12)				1)	Red	dox Dark Su	urface (F6))		
Sandy Muck Mineral (S1)	Sandy Muck Mineral (S1)	I — ·			1)	De _l	oleted Dark	Surface (F7)		
Sandy Gleyed Matrix (S4)	Sandy Gleyed Matrix (S4) Verified Polos (F9) Wetland Hydrology must be present. Restrictive Layer (if present): Type:		•	•							³ Indicators of hydrophytic vegetation and
Restrictive Layer (if present): Type: Depth (inches): Remarks: HYDRIC SOILS ASSUMED BASED ON HYDROLOGY INDICATORS. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Surface Water (A1) Sulface Sulface	Restrictive Layer (if present):					Ver	nal Pools (I	F9)			wetland hydrology must be present.
Type:	Type:	· -	•								
Remarks: HYDRIC SOILS ASSUMED BASED ON HYDROLOGY INDICATORS. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Depth (inches):		ayer (ii pres	sent).							
Remarks: HYDRIC SOILS ASSUMED BASED ON HYDROLOGY INDICATORS. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Water Resent? Water Table (Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth	Remarks: HYDRIC SOILS ASSUMED BASED ON HYDROLOGY INDICATORS. Wetland Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water Water (B1) Sulface Soll Cracks (B1) Sulface Soil Cracks (B2) Sulface Soil Cracks (B3) Sulface Soil Cracks (B4) Sulface Soil Cracks (B4) Sulface Soil Cracks (B5) Sulface Soil Cracks (B6) Sulface Soil Cracks (B7) Shallow Aquitard (D3)		hes).								Hydric Soil Present? Yes No
HYDRIC SOILS ASSUMED BASED ON HYDROLOGY INDICATORS. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Houdation Visible on Aerial Imagery (B7) Depth (inches): Surface Water Present? Yes No Depth (inches): User Ada Hydrology Present? Yes No Depth (inches): User Ada Hydrology Present? Yes No Depth (inches): 12	Hydrology Wettand Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift deposits (B2) (Nonriverine) Sodiment Deposits (B2) (Riverine) Doubled Riccolor (C2) Drift deposits (B2) (Nonriverine) Sodiment Deposits (B2) (Riverine) Doubled Riccolor (C2) Drift deposits (B2) (Nonriverine) Sodiment Deposits (B2) (Riverine) Doubled Riccolor (C1) Drift Deposits (B3) Riverine) Doubled Riccolor (C2) Drift deposits (B3) (Noneriverine) Sourface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):										
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Water Table (A2) Mater Marks (B1) (Riverine) Mater Marks (B1) (Nonriverine) Mater Marks (B1) Mat	Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) Riverine) Drift Deposits (B2) (Riverine)		C ACCUME			LOCV INF					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B12) Sediment Deposits (B1) (Riverine) High Water Table (A2) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): 12	Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Teld Observations: Surface Water Present? Yes No Depth (inches): Suturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	HYDRIC SUIL	-2 A220MET) BASED	ON HYDRO	LOGY INL	DICATORS).			
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Surface Water (A1)	Surface Water (A1)	Wetland Hyd	Irology Indi	cators:							
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Saturation (A3)	✓ Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth	Surface V	Vater (A1)			S	alt Crust (B	311)			Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine)	Water Marks (B1) (Nonriverine)	High Wat	er Table (A2)			В	iotic Crust	(B12)			Sediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine)	Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water Table Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	✓ Saturation	n (A3)			A	quatic Inve	ertebrates	(B13)		Drift Deposits (B3) Riverine)
Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Surface Soil Cracks (B6) □ Recent Iron Reduction in Plowed Soils (C6) □ Inundation Visible on Aerial Imagery (B7) □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-neutral Test (D5) Field Observations: Surface Water Present? Ves No □ Depth (inches): □ Depth (inches): □ Saturation Present? Ves No □ Depth (inches): □ Depth (inche	□ Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C8) □ Surface Soil Cracks (B6) □ Recent Iron Reduction in Plowed Soils (C6) □ Saturation Visible on Aerial Imagery (C9) □ Inundation Visible on Aerial Imagery (B7) □ Thin Muck Surface (C7) □ Shallow Aquitard (D3) □ Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes □ No □ Depth (inches): □ Water Table Present? Yes □ No □ Depth (inches): □ Wetland Hydrology Present? Yes □ No □ Depth (inches): □ Depth (inches): □ Yes □ No □ No □ Depth (inches): □ Yes □ No □ Depth (inches): □ Yes □ No □ No □ Depth (inches): □ Yes □ No □ No □ Depth (inches): □ Yes □ No □ Depth (inches): □ Yes □ No □ Depth (inches): □ Yes □ No □ No □ Depth (inches): □ Yes □ No □ No □ Depth (inches): □ Yes □ No □ No □ Depth (inches): □ Yes □ No □ N	Water Ma	ırks (B1) (Nor	riverine)		□ н	lydrogen Su	ulfide Odo	r (C1)		Drainage Patterns (B10)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inc	Surface Soil Cracks (B6)		•		•			•	•	g Roots (C3)	Dry Season Water Table (C2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3) ☐ Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ☐ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ○ No ○ Depth (inches): ☐ Water Table Present? Yes ○ No ○ Depth (inches): ☐ Wetland Hydrology Present? Yes ○ No ○ Depth (inches): ☐ Wetland Hydrology Present? Yes ○ No ○ Depth (inches): ☐ Yes ○ No ○	☐ Inundation Visible on Aerial Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3) ☐ Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ☐ FAC-neutral Test (D5) ☐ Field Observations: Surface Water Present? Yes No Depth (inches): ☐ Water Table Present? Yes No Depth (inches): ☐ Wetland Hydrology Present? Yes No Depth (inches): ☐ Wetland Hydrology Present? Yes No Depth (inches): ☐ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:)				` ,		
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Ves No Depth (inches): Depth (inches): Depth (inches): 12 Wetland Hydrology Present? Yes No No Depth (inches): No C	Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): I2 Wetland Hydrology Present? Yes No No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									Soils (C6)	
Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Yes No Depth (inches): Depth (inches): 12 Wetland Hydrology Present? Yes No No Depth (inches): Yes No Depth (inches): 12	Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No No Depth (inches): 12			-	jery (B7)						
Surface Water Present? Water Table Present? Yes No Depth (inches): Depth (inches): Saturation Present? (includes capillary fringe) Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): 12 Wetland Hydrology Present? Yes No Depth (inches):	Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Depth (inches): Depth (inches): Depth (inches): 12 Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			(B9)			ther (Expla	iin in Rem	arks)		FAC-neutral Test (D5)
Water Table Present? Saturation Present? (includes capillary fringe) Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): 12 Wetland Hydrology Present? Yes No No O	Water Table Present? Saturation Present? (includes capillary fringe) Depth (inches): No No No No No No No No No N			Vas	O No @)	Donth (incl	hos):		7	
Saturation Present? (includes capillary fringe) Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No No C	Saturation Present? (includes capillary fringe) Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No Depth (inches): 12 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									_ 	
(includes capillary fringe) Yes No Depth (inches): 12	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:						Depth (incl	hes):		Wetla	and Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:		(includes capil	lary fringe)								•
	Remarks:	Describe Red	corded Data	(stream	gauge, moi	nitor well,	aerial ph	otos, pre	vious insp	ections), if	available:
	Remarks:										
Remarks:		Remarks:									

	gnificantly o	Local relief 3.7947 Yes disturbed? blematic?	(concave, o	State: OR Sampling Point: SP 109 ange: S 34 T 20 S R 10 E convex, none): flat Slope: 0.0% / 0 Long.: -121.5082 Datum: NAD 83 NWI classification: PSSC (If no, explain in Remarks.)
Landform (hillslope, terrace, etc.): Valley bottom ubregion (LRR): LRR B bil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this tir re Vegetation , Soil , or Hydrology	me of year? gnificantly o	Local relief 3.7947 Yes disturbed? blematic?	(concave, o	Convex, none): flat Slope: 0.0% / 0 Long.: -121.5082 Datum: NAD 83 NWI classification: PSSC (If no, explain in Remarks.)
ubregion (LRR): LRR B pil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this tir re Vegetation , Soil , or Hydrology , signey Vegetation , Soil , or Hydrology , na fourmary of Findings - Attach site map show	me of year? gnificantly o	3.7947 Yes disturbed? blematic?	No Are "N	Long.:121.5082 Datum: NAD 83 NWI classification: PSSC (If no, explain in Remarks.)
poil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this tir re Vegetation , Soil , or Hydrology , signere Vegetation , Soil , or Hydrology na	me of year? gnificantly o	Yes disturbed? blematic?	Are "N	NWI classification: PSSC (If no, explain in Remarks.)
poil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this tir re Vegetation , Soil , or Hydrology , signere Vegetation , Soil , or Hydrology na	me of year? gnificantly o	Yes disturbed? blematic?	Are "N	NWI classification: PSSC (If no, explain in Remarks.)
e climatic/hydrologic conditions on the site typical for this tire. re Vegetation	gnificantly o	disturbed?	Are "N	(If no, explain in Remarks.)
re Vegetation	gnificantly o	disturbed?	Are "N	
re Vegetation	iturally prol	blematic?		iornal circumstances present?
Summary of Findings - Attach site map show			(If nee	
<u> </u>	wing sar		int loos	eded, explain any answers in Remarks.)
-lydrophytic Vegetation Present? Yes ♥ No ∪		nping po	onitioca	itions, transects, important reatures, etc.
		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	d? Yes ● No ○
Netland Hydrology Present? Yes ● No ○				·
Remarks:				
/EGETATION - Use scientific names of plants		Dominant		
PEGETATION - Ose scientific flames of plants		_Species?		
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	
1,	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2	0	0.0%		
3	0	0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4	0	0.0%		
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1	0	0.0%		Prevalence Index worksheet:
2.	0	0.0%		Total % Cover of: Multiply by:
3.	0	0.0%		0BL species 100 x 1 = 100
4.	0	0.0%		FACW species $0 \times 2 = 0$
5	0	0.0%		FAC species 0 x 3 = 0
	0	= Total Cove	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:				UPL species $0 \times 5 = 0$
1 Carex nebrascensis	50	✓ 50.0% ✓ 50.0%	OBL	Column Totals:100 (A)100 (B)
2. Carex aquatilis 3	0 	50.0%	OBL	Prevalence Index = B/A = 1.000
4	0	0.0%		
5	0	0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
6	0	0.0%		✓ Prevalence Index is ≤3.0 1
7	0	0.0%		☐ Morphological Adaptations 1 ¹ , rovide supporting
8		0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10, 11.	0	0.0%		
	100	= Total Cove	 er	1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:				be present, unless disturbed or problematic.
1	0_	0.0%		
2	0	0.0%		Hydrophytic
	0	= Total Cove	er	Vegetation Present? Yes ● No ○
% Bare Ground in Herb Stratum: 0 % Co	ver of Bioti	c Crust ()		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

· · · · · · · · · · · · · · · · · · ·	•			irm the a	bsence of indicators.)	
Depth Matrix (inches) Color (moist) %		lox Featu		Loo?	Toyturo	Domarks
		%	Type 1	Loc ²	Texture	Remarks
0-20 10YR 2/1 100	 %				Silt Loam	
					-	
1 Type: C=Concentration. D=Depletion. RM=	=Reduced Matrix, CS=Covere	ed or Coate	ed Sand Grain	ns ² Loca	ition: PL=Pore Lining. M=	-Matrix
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwis	e noted.)			Indicators for Prob	lematic Hydric Soils: ³
Histosol (A1)	Sandy Redox ((S5)			1 cm Muck (A9)	(LRR C)
Histic Epipedon (A2)	Stripped Matri	x (S6)			2 cm Muck (A10)	(LRR B)
Black Histic (A3)	Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed	Matrix (F2	2)		Red Parent Mate	rial (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matr	ix (F3)			✓ Other (Explain in	Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Su	ırface (F6)				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark	Surface (F	7)			
` ′	Redox depress	sions (F8)			3 Indicators of hydro	phytic vegetation and
Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4)	Vernal Pools (F9)			wetland hydrolog	must be present.
						·
Restrictive Layer (if present):						
Type:					Hydric Soil Present?	Yes ● No ○
Depth (inches):						103 0 140 0
Remarks:						
HYDRIC SOILS ASSUMED BASED ON PE	ERSISTANT SATURATION	I (AQUIC	MOISTURE	REGIME	Ξ).	
HYDRIC SOILS ASSUMED BASED ON PE	ERSISTANT SATURATION	I (AQUIC	MOISTURE	REGIME	Ξ).	
HYDRIC SOILS ASSUMED BASED ON PE	ERSISTANT SATURATION	I (AQUIC	MOISTURE	REGIME	Ξ).	
	ERSISTANT SATURATION	I (AQUIC	MOISTURE	REGIME	E).	
HYDRIC SOILS ASSUMED BASED ON PE	ERSISTANT SATURATION	I (AQUIC	MOISTURE	REGIME	E).	
	ERSISTANT SATURATION	I (AQUIC	MOISTURE	REGIME	E).	
Hydrology			MOISTURE	REGIME		dicators (2 or more required)
Hydrology Wetland Hydrology Indicators:		ply)	MOISTURE	REGIME	Secondary In	dicators (2 or more required)_ ss (B1) (Riverine)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	equired; check all that ap	ply) 11)	MOISTURE	REGIME	Secondary In	· · · · · · · · · · · · · · · · · · ·
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3)	equired; check all that ap	ply) 11) (B12)		REGIME	Secondary In Water Marl Sediment I	ks (B1) (Riverine)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve	ply) 11) (B12) rtebrates ((B13) (C1)		Secondary In Water Marl Sediment I Drift Depos	cs (B1) (Riverine) Deposits (B2) (Riverine)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of the primary Indicators (Minimum of the primary Indicators (Minimum of the primary Indicators (Minimum of the primary Indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve	ply) 11) (B12) rtebrates (ulfide Odor zospheres	(B13) (C1) along Living		Secondary In Water Marl Sediment I Drift Depos	cs (B1) (Riverine) Deposits (B2) (Riverine) Distriction (B3) Riverine)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve	ply) 11) (B12) rtebrates (ulfide Odor zospheres	(B13) (C1) along Living		Secondary In Water Marl Sediment I Drift Depos	cs (B1) (Riverine) Deposits (B2) (Riverine) its (B3) Riverine) atterns (B10) I Water Table (C2)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve	ply) 11) (B12) rtebrates (ulfide Odor zospheres (Reduced I	(B13) (C1) along Living	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu	cs (B1) (Riverine) Deposits (B2) (Riverine) its (B3) Riverine) atterns (B10) I Water Table (C2)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	ply) 11) (B12) rtebrates (ulfide Odor zospheres Reduced I Reduction urface (C7	(B13) (C1) along Living ron (C4) in Plowed So	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu	cs (B1) (Riverine) Deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) purrows (C8) Visible on Aerial Imagery (C9)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve	ply) 11) (B12) rtebrates (ulfide Odor zospheres Reduced I Reduction urface (C7	(B13) (C1) along Living ron (C4) in Plowed So	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu Saturation	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized by Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (B) ☐ Water-Stained Leaves (B9) Field Observations:	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 11) (B12) rtebrates (ulfide Odor zospheres Reduced I Reduction urface (C7	(B13) (C1) along Living ron (C4) in Plowed So	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (Bit water-Stained Leaves (B9) Field Observations:	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	ply) 11) (B12) rtebrates (ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(B13) (C1) along Living ron (C4) in Plowed So	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Bill Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 11) (B12) Intebrates of the plant of th	(B13) (C1) along Living ron (C4) in Plowed So	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverine) Deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) divert Table (C2) divert Table (C2) divert Table (C3) divert Table (C9)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (B) ☐ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 111) (B12) rtebrates illifide Odor zospheres Reduced I Reduction urface (C7 in in Remains):	(B13) (C1) along Living ron (C4) in Plowed So) arks)	Roots (C3	Secondary In Water Marl Sediment I Drift Depos Drainage P Dry Seasor Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized by Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (Bingle Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? (includes capillary fringe)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 11) (B12) rtebrates alfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): hes):	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	Roots (C3 iils (C6)	Secondary In Water Marl Sediment [Drift Depose Drainage P Crayfish Bu Saturation Shallow Aq FAC-neutra	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (B) ☐ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 11) (B12) rtebrates alfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): hes):	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	Roots (C3 iils (C6)	Secondary In Water Marl Sediment [Drift Depose Drainage P Crayfish Bu Saturation Shallow Aq FAC-neutra	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reconstructions) Surface Water (A1) High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B1) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 11) (B12) rtebrates alfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): hes):	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	Roots (C3 iils (C6)	Secondary In Water Marl Sediment [Drift Depose Drainage P Crayfish Bu Saturation Shallow Aq FAC-neutra	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized by Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (Bingle Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? (includes capillary fringe)	equired; check all that ap Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	ply) 11) (B12) rtebrates alfide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): hes):	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	Roots (C3 iils (C6) Wetla	Secondary In Water Marl Sediment [Drift Depose Drainage P Crayfish Bu Saturation Shallow Aq FAC-neutra	cs (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B4) Riverine) Deposits (

Project/Site: Deschutes LWI		City/County:	Sunriver/D	eschutes Sampling Date: 06-May-10
Applicant/Owner: Deschutes County				State: OR Sampling Point: SP 110
Investigator(s): Alessandra Capretti, Adam Merrill		Section, To	wnship, R	ange: S 34 T 20 S R 10 E
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (concave,	convex, none): flat Slope: 0.0% / 0.0
Subregion (LRR): LRR B	 Lat.: 43			Long.: -121.5096 Datum: NAD 83
		5.7717		NWI classification: PSSC
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope e climatic/hydrologic conditions on the site typical for th		. Vas	• No (
are Vegetation	significantly			Iormal Circumstances" present? Yes No
				•
re Vegetation	naturally pro			eded, explain any answers in Remarks.)
<u> </u>	nowing sai	Tipinig po	1111 1002	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes NO		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	d? Yes ◉ No ○
Wetland Hydrology Present? Yes No				
Remarks:				
VEGETATION - Use scientific names of pla	antc	Dominant		
VEGETATION - Ose scientific flames of pic		_Species? _		
Tree Stratum (Plot size:	Absolute % Cover	_	Indicator Status	
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
2.		0.0%		
3	0	0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
4	0	0.0%		
Sanling /Shrub Stratum (Diot cizo:	0	= Total Cove	r	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)	30	1 00.0%	FACW	·
Salix geyeriana Salix geyeriana		0.0%	TACW	Prevalence Index worksheet: Total % Cover of: Multiply by:
3.		0.0%		OBL species 100 x 1 = 100
4.		0.0%		FACW species 30 x 2 = 60
5.	0	0.0%		FAC speciles
	30	= Total Cove	r	FACU species
Herb Stratum (Plot size:				UPL species $0 \times 5 = 0$
1, Carex aquatilis	60	60.0%	OBL	Col umn Total s: 130 (A) 160 (B)
2. Carex nebrascensis		40.0%	OBL	
3		0.0%		
45		0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0
7		0.0%		■ Morphological Adaptations 1 1, rovide supporting
8		0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10,		0.0%		
11,		0.0%		1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:	100	= Total Cove	Γ	be present, unless disturbed or problematic.
	0	0.0%		
		U.U 70		
1		0.0%		Hydrophytic
		0.0%	r	Hydrophytic Vegetation Proceed: Yes • No
1. 2.		= Total Cove	r	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Type:			Matrix			Redox Fea	atures			
7.10 10 Nor 2/1 60% 2.5 Nor 3/6 40% C M Sitt 10.20 5Y 7/3 70% 10 Nor 4/6 30% C M Sitty Glay Type: C=Concentration D=Deptetion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains ** PLocation: PL=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted) I heliacoal (A1) Sandy Redox (S5) Indicators for Problematic Hydric Soils 3 Heliacoal (A1) Sandy Redox (S5) Indicators for Problematic Hydric Soils 3 Heliacoal (A1) Sandy Redox (S5) Indicators for Problematic Hydric Soils 3 Heliacoal (A1) Sandy Redox (S5) Indicators for Problematic Hydric Soils 3 Heliacoal (A1) Sandy Hudray Mineral (F1) Redox Dark Surface (F1) Redox Dark Surface (F1) Redox Dark Surface (F2) Red Dark (A10) (LRR B) Redox Dark Surface (F1) Indicators (Papier Matrix (F2) Depteted Matrix (F2) Other (Explain in Remarks) Sandy Mark Mineral (S1) Vernal Pools (F9) Vern	(inches)	Color (r	noist)	%	Color (mo			Loc2	Texture	Remarks
Type: C-Concentration. D-Depletion. RM-Reduced Matrix, CS-Covered or Coated Sand Grains	0-7	10YR	2/1	100%					Silt	dense root mass
Fype: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Control Sand Crains PL=Pere Lining, M=Matrix Pl-Pere L	7-10	10YR	2/1	60%	2.5YR	3/6 40%	% C	M	Silt	
Type: C=Correntration D=Depletion. RM=Reduced Matrix. CS=Covered or Coaled Sand Grains **PL=Pere Lining. M=Matrix **Putric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Histosoi (Ar) Sandy Redux (SS) Indicators for Problematic Hydric Soils.3 Histosoi (Ar) Indicators for Problematic Hydric Soils.3 Histosoil (Ar) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Soils.3 Indicators (Art) Red Parent Material (TE) Redux (Art) Redux (A	10-20	5Y	7/3	70%	10YR	4/6 30%	— — С	M	Silty Clay	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Redox (S5) 1 cm Musk (A9) (LRR C) Histosoi (A1) Sandy Redox (S5) 2 cm Musk (A9) (LRR C) Block Histic (A3) Loamy Musky Mineral (F1) Redox Dark Straffield Layers (A5) (LRR C) Depleted Marks (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Dark Strafee (A11) Depleted Dark Strafee (A11) Depleted Dark Strafee (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy Musk Mineral (S1) Vernal Pools (F9) Vernal P										_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histoscol (A1)										
Histic Epipedon (A2) Black Histic (A3) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Black Histic (A3) Loamy Mucky Mincra (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Sideyed Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A6) Reduced Vertic (F18) Hydrogen Sulfide (A6) Depleted Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A6) Reduced Vertic (F18) Sandy Gleyed Matrix (S1) Redox Dark Surface (F1) Sandy Muck Mineral (S1) Redox Dark Surface (F1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Redox Dark Surface (F19) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Redox Dark Surface (F19) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Redox Dark Surface (F19) Surface Vater (I present): Type:	Type: C=Cor	ncentration. D	=Depletion	. RM=Reduce	ed Matrix, CS	=Covered or Co	oated Sand Gra	ins ² Loca	tion: PL=Pore Lining. M	I=Matrix
Histic Epipodon (AZ) Stripped Matrix (So) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Minoral (F1) Reduced Vertic (F18) Hydrogen Suffide (A4) Loamy Mucky Minoral (F1) Reduced Vertic (F18) Hydrogen Suffide (A9) (LRR C) Depleted Matrix (F2) Red Parent Material (T12) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Bellow Dark Surface (A11) Depleted Dark Surface (F0) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Muck Mineral (S1) Vernal Pools (F9) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. Setrictive Layer (if present): Type:	<u> </u>		(Applicabl	e to all LRR			d.)		Indicators for Pro	blematic Hydric Soils: ³
Black Histic (A3)										•
Hydrogen Sulfide (A4)									2 cm Muck (A1	O) (LRR B)
Stratified Layers (A5) (LRR C)					_	-			Reduced Vertic	(F18)
□ 1 cm Muck (A9) (LRR D) □ Depleted Martx (1-3) □ Other (Explain in Remarks) □ Other (Explain in Remarks) □ Depleted Below Dark Surface (A11) □ Depleted Dark Surface (F6) □ Depleted Dark Surface (F7) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) □ Redox depressions (F8) □ 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. □ Sardy Muck Mineral (S1) □ Vernal Pools (F9) □ 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. □ Type: □ Depth (inches): □ Hydric Soil Present? Yes ● No □ Remarks: PYDRIC SOILS ASSUMED BASED ON HYDROLOGY INDICATOR. Surface Water (A1) □ Sait Crust (B11) □ Water Marks (B1) (Riverine) □ Surface Water (A2) □ Biotic Crust (B12) □ Secondary Indicators (2 or more required Surface (A2) □ Biotic Crust (B12) □ Sediment Deposits (B2) (Riverine) □ Drift Deposits (B3) Riverine) □ Drift Deposits (B3) (Nonriverine) □ Oxidized Rhizospheres along Living Roots (C3) □ Dry Season Water Table (C2) □ Drift Deposits (B3) (Nonriverine) □ Oxidized Rhizospheres along Living Roots (C3) □ Dry Season Water Table (C2) □ Drift Deposits (B3) (Nonriverine) □ Drift Deposits (B3) (Nonri	_ ` `		LRR C)				(F2)		Red Parent Mat	erial (TF2)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) Sandy Mick Mineral (S1) Depth (Inches): Type: Depth (Inches): Petriarry Indicators Wetland Hydrology Indicators: Petriarry Indicators (Minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Surface Water (A1) Sadi (B1) (Nonriverine) High Water Table (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Water (B1) (Nonriverine) Surface Water (S01) (Noneriverine) Surface Water (S01) (Noneriverine) Depth (Inches): Depth (Inches): Surface Water (S01) (Noneriverine) Depth (Inches): Dept	_		•						Other (Explain	in Remarks)
□ Thick Dark Surface (A12) □ Deperete Dark Surface (F7) □ Redox depressions (F8) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Muck Mineral (S1) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. Type: □ Depth (inches): □ Hydric Soil Present? Yes ● No □				0		•				
Sandy Muck Mineral (S1)	_ ·		•	,						
Restrictive Layer (if present): Type:		•	•				8)		3 Indicators of hydr	ophytic vegetation and
Sativative Layer (If present): Type:	_ `					Pools (F9)			wetland hydrolo	gy must be present.
Type:		<u> </u>								
Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Fact-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth	YDRIC SOII	LS ASSUMEI	D BASED C)n hydrol	OGY INDIC	ATOR.				
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sult Crust (B11) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Primary Indicators (2 or more required water (A1) Surface Water (A1) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Drainage Patterns (B10) Drainage	ydrolog	у								
Surface Water (A1)	Vetland Hyd	drology Indi	_							
High Water Table (A2)	Primary Indi	icators (min	cators:							
✓ Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): No Depth (inches): Yes No Depth (inches):	Surface V			ne required					Secondary I	ndicators (2 or more required)
Water Marks (B1) (Nonriverine)		, ,		<u>ne required</u>	Salt	Crust (B11)				
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches)	High Wat	, ,		ne requirec	Salt Bioti	Crust (B11) c Crust (B12)			Water Ma	rks (B1) (Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inc	High Wat	er Table (A2)		<u>ne required</u>	Salt Bioti	Crust (B11) c Crust (B12)	es (B13)		Water Ma Sediment	rks (B1) (Riverine) Deposits (B2) (Riverine)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	High Wat Saturation	er Table (A2) n (A3)	imum of o	<u>ne requirec</u>	Salt Bioti	Crust (B11) c Crust (B12) atic Invertebrate			Water Ma Sediment Drift Depo	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Inundation Visible on Aerial Imagery (B7)	High Wat Saturation Water Ma	er Table (A2) n (A3) arks (B1) (Nor	imum of o		Salt Bioti Aqua	Crust (B11) c Crust (B12) atic Invertebrate rogen Sulfide O	dor (C1)	j Roots (C3	Water Ma Sediment Drift Depo	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (High Wat Saturation Water Ma Sediment	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2	imum of o nriverine)) (Nonriveri		Salt Bioti Aqua Hydr	Crust (B11) c Crust (B12) atic Invertebrate ogen Sulfide O ized Rhizospher	dor (C1) res along Living	g Roots (C3	Water Ma Sediment Drift Depo Drainage Dry Seaso	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) on Water Table (C2)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Obsecribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	High Wat Saturation Water Ma Sediment Drift depo	er Table (A2) n (A3) arks (B1) (Nor t Deposits (B2 posits (B3) (No	imum of o nriverine)) (Nonriveri neriverine)		Salt Bioti Aqua Hydr Oxid	Crust (B11) c Crust (B12) atic Invertebrate ogen Sulfide Or ized Rhizospher ence of Reduce	dor (C1) res along Living ed Iron (C4)		Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8)
Surface Water Present? Yes No Depth (inches):	High Wat Saturation Water Ma Sediment Drift depo	er Table (A2) n (A3) arks (B1) (Nor t Deposits (B2 osits (B3) (No soil Cracks (B6	imum of o nriverine)) (Nonriveri neriverine)	ine)	Salt Bioti Aqua Hydr Oxid	Crust (B11) c Crust (B12) atic Invertebrate cogen Sulfide Or ized Rhizospher ence of Reduce	dor (C1) res along Living ed Iron (C4) ion in Plowed S		Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): No Depth (inches): Depth (inches): Depth (inches): Depth (inches): No Depth (inches): Depth (inches): Depth (inches): No Depth (inches): Depth (i	High Wat Saturation Water Ma Sediment Drift depo Surface S Inundation	er Table (A2) n (A3) arks (B1) (Nor t Deposits (B2) osits (B3) (No Goil Cracks (B6) on Visible on A	imum of o nriverine)) (Nonriveri neriverine) o) verial Image	ine)	Salt Bioti Aqua Hydr Oxid Pres Rece	Crust (B11) c Crust (B12) atic Invertebrate ogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reducti Muck Surface (dor (C1) res along Living ed Iron (C4) ion in Plowed S (C7)		Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Saturation Present? (includes capillary fringe) Ves No Depth (inches): 10 Wetland Hydrology Present? Yes No Depth (inches): 10 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	High Wat Saturation Water Ma Sediment Drift depo Surface S Inundatic Water-Sta	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) cosits (B3) (No Soil Cracks (B6) on Visible on A ained Leaves	imum of o nriverine)) (Nonriveri neriverine) b) herial Image (B9)	ine) ery (B7)	Salt Bioti Aqua Hydr Oxid Pres Recca Thin	Crust (B11) c Crust (B12) atic Invertebrate ogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reducti Muck Surface (dor (C1) res along Living ed Iron (C4) ion in Plowed S (C7)		Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Oescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	High Wat Saturation Water Ma Sediment Drift depo Surface S Inundation Water-Sta	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) osits (B3) (No Soil Cracks (B6 on Visible on A ained Leaves vations:	imum of o nriverine)) (Nonriveri neriverine) b) herial Image (B9)	ine) ery (B7)	Salt Bioti Aqua Hydr Oxid Pres Rece Thin	Crust (B11) c Crust (B12) atic Invertebrate cogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reducti Muck Surface (er (Explain in Re	dor (C1) res along Living ed Iron (C4) ion in Plowed S (C7)		Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
	High Wat Saturation Water Ma Sediment Drift depr Surface S Inundatic Water-Sta	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) osits (B3) (No Soil Cracks (B6) on Visible on A ained Leaves rations: Present?	imum of o nriverine)) (Nonriveri neriverine) o) serial Image (B9) Yes	ine) ery (B7) No •	Salt Bioti Aqua Hydr Oxid Pres Rece Thin	Crust (B11) c Crust (B12) atic Invertebrate rogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reduct Muck Surface (er (Explain in Re-	dor (C1) res along Living ed Iron (C4) ion in Plowed S (C7)		Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) on Water Table (C2) surrows (C8) of Visible on Aerial Imagery (C9) quitard (D3) and Test (D5)
emarks:	High Wat Saturation Water Ma Sediment Drift depo Surface S Inundation Water-Sta Field Observ Surface Water Water Table F Saturation Pres	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) osits (B3) (No Soil Cracks (B6) on Visible on A ained Leaves vations: Present? ersent?	imum of o nriverine)) (Nonriverineriverine)) herial Image (B9) Yes	ery (B7) No No No	Salt Bioti Aqua Hydr Oxid Pres Recca Thin Othe	Crust (B11) c Crust (B12) atic Invertebrate rogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reduct Muck Surface (er (Explain in Re pth (inches):	dor (C1) res along Living ed Iron (C4) ion in Plowed S (C7) emarks)	doils (C6)	Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A FAC-neuti	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
emarks:	High Wat Saturation Water Ma Sediment Drift depo Surface S Inundatio Water-Sta Field Observ Surface Water Water Table F Saturation Pre (includes capi	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) osits (B3) (No Soil Cracks (B6) on Visible on A ained Leaves vations: Present? esent? ellary fringe)	imum of o nriverine)) (Nonriveri neriverine) b) terial Image (B9) Yes Yes	ery (B7) No No No No No No No No	Salt Bioti Aqua Hydr Oxid Pres Rece Thin Othe	Crust (B11) c Crust (B12) atic Invertebrate rogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reducti Muck Surface (er (Explain in Re pth (inches): pth (inches):	dor (C1) res along Living d Iron (C4) ion in Plowed S (C7) emarks)	oils (C6)	Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A FAC-neute	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
	High Wat Saturation Water Ma Sediment Drift depo Surface S Inundatio Water-Sta Field Observ Surface Water Water Table F Saturation Pre (includes capi	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) osits (B3) (No Soil Cracks (B6) on Visible on A ained Leaves vations: Present? esent? ellary fringe)	imum of o nriverine)) (Nonriveri neriverine) b) terial Image (B9) Yes Yes	ery (B7) No No No No No No No No	Salt Bioti Aqua Hydr Oxid Pres Rece Thin Othe	Crust (B11) c Crust (B12) atic Invertebrate rogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reducti Muck Surface (er (Explain in Re pth (inches): pth (inches):	dor (C1) res along Living d Iron (C4) ion in Plowed S (C7) emarks)	oils (C6)	Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A FAC-neute	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
	High Wat Saturation Water Ma Sediment Drift depc Surface S Inundation Water-Sta Field Observe Surface Water Vater Table F Saturation Presincludes capil Describe Rec	er Table (A2) n (A3) arks (B1) (Nor Deposits (B2) osits (B3) (No Soil Cracks (B6) on Visible on A ained Leaves vations: Present? esent? ellary fringe)	imum of o nriverine)) (Nonriveri neriverine) b) terial Image (B9) Yes Yes	ery (B7) No No No No No No No No	Salt Bioti Aqua Hydr Oxid Pres Rece Thin Othe	Crust (B11) c Crust (B12) atic Invertebrate rogen Sulfide Or ized Rhizospher ence of Reduce ent Iron Reducti Muck Surface (er (Explain in Re pth (inches): pth (inches):	dor (C1) res along Living d Iron (C4) ion in Plowed S (C7) emarks)	oils (C6)	Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish E Saturation Shallow A FAC-neute	rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)

Project/Site: Deschutes LWI		City/County:	Sunriver/Des	schutes Samplin	g Date: 06-May-10	
Applicant/Owner: Deschutes County				State: OR Samp	oling Point: SP 1	111
Investigator(s): Alessandra Capretti, Adam Merrill		Section, Tow	nship, Ra	nge: \$ 3 T 21 S	R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (d	oncave, co	onvex, none): flat	Slope: 0.0% /	/0.0
Subregion (LRR): LRR B	 Lat.: 4;			Long.: -121.5162	Datum: NAD	83
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slop				NWI classification:		
e climatic/hydrologic conditions on the site typical for the		y Vas	No ○	(If no, explain in Remarks		
Are Vegetation, Soil, or Hydrology	significantly			rmal Circumstances" present?	Yes ● No ○)
				•		
are Vegetation $\ igsqcup$, Soil $\ igsqcup$, or Hydrology $\ igsqcup$ Summary of Findings - Attach site map s	naturally pro			led, explain any answers in Rer		otc
<u> </u>	Silowing Sai	Tipling poi	III IUCA	ilons, transects, impor	tant leatures,	eic.
Hydrophytic Vegetation Present? Yes No		Is the S	ampled Ar	ea		
Hydric Soil Present? Yes No		within a	Wetland?	Yes No		
Wetland Hydrology Present? Yes No						
Remarks:						
WEGETATION House of the		5				
VEGETATION - Use scientific names of pl	ants.	Dominant Species?				
Tree Stratum (Plot size:	Absolute % Cover		ndicator tatus	Dominance Test worksheet:		
1 Pinus contorta	5		FAC	Number of Dominant Species That are OBL, FACW, or FAC:	3 ((A)
2.		0.0%	IAO	That are OBL, FACW, OF FAC.		(A)
3.		0.0%		Total Number of Dominant Species Across All Strata:	3 ((B)
4.	0	0.0%		Species Across Air Strata.		(b)
	5	= Total Cover		Percent of dominant Species	100.0% ((A/B)
Sapling/Shrub Stratum (Plot size:		_		That Are OBL, FACW, or FAC:	100.070	(A/D)
1. Salix geyeriana		100.0%	FACW	Prevalence Index worksheet:		
2		0.0%		Total % Cover of:	Multiply by:	-
3		0.0%		OBL species 90	x 1 = 90	
4. 5.		0.0%			x 2 = 40	
J		0.0%			x 3 =	
Herb Stratum (Plot size:	20	= Total Cover			x 4 =0	
1. Carex aquatilis	80	✓ 84.2%	OBL		x 5 =	
2. Carex nebrascensis			OBL	Column Totals: 120	(A) <u>160</u>	(B)
3. Agrostis sp.		5.3%	FAC	Prevalence Index = B/A =	1.333	
4	0	0.0%		Hydrophytic Vegetation Indica	tors:	
5	0	0.0%		✓ Dominance Test is > 50%	•	
6		0.0%		✓ Prevalence Index is ≤3.0	1	
7		0.0%		Morphological Adaptation	ıs 1 ¹ . 'rovide support	ting
8,		0.0%		data in Remarks or on a s	eparate sheet)	
9 10		0.0%		Problematic Hydrophytic	Vegetation 1 (¹ (plair	n)
11.		0.0%				
	95	= Total Cover		1 Indicators of hydric soil and	wetland hydrology n	must
Woody Vine Stratum (Plot size:			-	be present, unless disturbed o	r problematic.	
1	0	0.0%				
		0.0%		Hydrophytic		
2				\f	\sim	
2	0	= Total Cover		Vegetation Present? Yes • No		
					O	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (De	scribe to	the depth n	eeded to				nfirm the a	absence of indicato	rs.)	
Depth	0-1	Matrix		0-1 (lox Featu		1 2	. T		Name and a
(inches)	Color (i			Color (moist)	%	Type ¹	Loc ²	Texture	ROOT N	Remarks
0-8	10YR	2/1			-				Silty Clay	KOOT N	IA33
8-11	10YR	2/1	100%						Silty Clay		
11-20	2.5Y	7/4	70%	2.5YR	4/8	30%	C	M	Silty Clay		
	-										
1 Funo. C. Con			n DM Dodu	and Matrix	CC Cover	d or Coot	- — Cond Cro		ation. DI Doro Linino	M Motrix	
Hydric Soil I		•						iins ²Loca	ation: PL=Pore Lining	·	1 1 2 0 4 3
Histosol ((дррпса:	oic to all ER		idy Redox (Indicators for I		tyaric Solis:º
	pedon (A2)			_	pped Matri				1 cm Muck (A9) (LRR C) A10) (LRR B)	
Black Hist	tic (A3)				my Mucky		1)		Reduced Ve		
Hydrogen	Sulfide (A4)				my Gleyed					Material (TF2)	
	Layers (A5) (oleted Matr				✓ Other (Expla	` ,	
	ck (A9) (LRR I			Red	lox Dark Su	urface (F6))		E other (Expe		
I — ·	Below Dark S		11)	☐ De	oleted Dark	Surface (F7)				
	k Surface (A1	•		Red	lox depress	sions (F8)			3 Indicators of h		akaktan and
	ıck Mineral (S			Uer Ver	nal Pools (F9)			wetland hydr	yaropnytic veg ology must be	etation and present.
	eyed Matrix (S										•
Restrictive L	ayer (if pres	sent):									
Type:	h >								Hydric Soil Prese	ent? Yes	● No ○
Depth (inc	nes)										
Remarks:									_,		
HYDRIC SOIL	_S ASSUMEI) BASED	ON PERSIS	TANT SA	URATION	I (AQUIC	MOISTUR	E REGIMI	E).		
Hydrolog	y										
Wetland Hyd	lrology Indi	cators:									
Primary Indi	cators (min	imum of	one require	d; check a	all that ap	(ylq			Secondar	y Indicators ((2 or more required)
	Vater (A1)				alt Crust (B					, Marks (B1) (Ri	·
☐ High Wat	er Table (A2)			В	iotic Crust	(B12)			Sedime	ent Deposits (B	2) (Riverine)
✓ Saturation	n (A3)			A	quatic Inve	ertebrates	(B13)		Drift D	eposits (B3) Ri	verine)
Water Ma	ırks (B1) (Nor	nriverine)		П	ydrogen Sı	ulfide Odor	r (C1)		Draina	ge Patterns (B	10)
Sediment	Deposits (B2) (Nonrive	rine)	c	xidized Rhi	zospheres	along Livin	g Roots (C3	B) Dry Se	ason Water Ta	ble (C2)
	osits (B3) (No)	P	resence of	Reduced I	ron (C4)		Crayfis	h Burrows (C8))
	oil Cracks (Bé						in Plowed S	Soils (C6)	Satura	tion Visible on	Aerial Imagery (C9)
	n Visible on A		gery (B7)		hin Muck S					v Aquitard (D3)	
☐ Water-Sta	ained Leaves	(B9)		C	ther (Expla	in in Rem	arks)		☐ FAC-ne	eutral Test (D5	
Field Observ			O N. 6	9				7			
Surface Water	Present?	Yes			Depth (inc	hes):					
Water Table P	resent?	Yes	● No C)	Depth (inc	hes):	18				s • No O
Saturation Pre (includes capil		Yes	No C)	Depth (inc	hes):	0	Wetla	and Hydrology Pres	ent? Yes	s • No ·
Describe Red		(stream	gauge, mo	nitor well,	aerial ph	otos, pre	vious inspe	ections), i	f available:		
Remarks:											

Project/Site: Deschutes LWI		City/County:_Su	unriver/Deschut	es	Sampling Da	te: 06-May-1	0
Applicant/Owner: Deschutes County				State: OR	Sampling	Point:	SP 112
Investigator(s): Alessandra Capretti, Adam Merrill		Section, Towr	nship, Range:	S 3 T	21 S R 1	0 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (co	oncave, conve	ex, none): hummo	ocky Slo	pe: 0.0°	% / 0.0
Subregion (LRR): LRR B	 Lat.: 43	3.7866	Lor	ng.: -121.5143		Datum: N	AD 83
oil Map Unit Name: 29A; Cryaquolls, 0 to 3 percent sk					sification: PEM		
e climatic/hydrologic conditions on the site typical for		Yes (• No O	(If no, explain i		C	
are Vegetation, Soil, or Hydrology [significantly			I Circumstances"	·	es 💿 No	\circ
Are Vegetation, Soil, or Hydrology [naturally pro						
Summary of Findings - Attach site map				explain any answ			os oto
<u> </u>		inpling poli	it location	is, transects	, importan	t reature	es, etc.
Hydrophytic Vegetation Present? Yes O No C		Is the Sa	mpled Area				
Hydric Soil Present? Yes No C		within a	Wetland?	Yes ● No ○			
Wetland Hydrology Present? Yes No							
Remarks:							
VEGETATION - Use scientific names of	nlants	Dominant					
VEGETATION - Ose selemente numes of	Absolute	Species?	dicator Dor	minance Test wor	kshoot:		
Tree Stratum (Plot size:	% Cover	_	atus				
1		0.0%		nber of Dominant S t are OBL, FACW, o		3	(A)
2		0.0%		al Namahan at Damain			
3		0.0%		al Number of Domir cies Across All Strat		3	(B)
4		0.0%			Consider		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cover		cent of dominant at Are OBL, FACW	•	100.0%	(A/B)
1. Salix geyeriana	5	✓ 100.0% F	ACW Prev	valence Index wo	rkshoot.		
2.		0.0%	<u>riev</u> Prev	Total % Cover		oly by:	
3.		0.0%	OBL	speci es	60 x 1 :		
4.	0	0.0%	FACV	· V species	5 x 2 :	= 10	_
5	0	0.0%		speci es _	40 x 3 :	120	_
	5	= Total Cover	FACI	J species	0 x 4 :	_ 0	
Herb Stratum (Plot size:			UPL	speci es _	x 5 :	0	_
1 Carex aquatilis			OBL Col u	umn Totals: _	105 (A)	190	(B)
2, Agrostis sp. 3.		✓ 40.0% FA	AC STA	Prevalence Inde	x = B/A =	1.810	
4.		0.0%	115.04	rophytic Vegetat			
5		0.0%		Dominance Test			
6		0.0%		Prevalence Inde			
7		0.0%		Morphological A	daptations 1	rovide sup	portina
8,		0.0%		data in Remarks	or on a separa	ite sheet)	
9		0.0%		Problematic Hyd	drophytic Veget	tation 1 (¹ կ	plain)
10 11.		0.0%					
	100	= Total Cover	1 Ir	ndicators of hydri	c soil and wetl	and hydrolo	gy must
Woody Vine Stratum (Plot size:)			be i	present, unless d	sturbed or pro	piematic.	
1		0.0%					
2.		0.0%		drophytic			
			Veg	getation	No ○		
	0	= Total Cover	Pre	esent? Yes	● No ○		
% Bare Ground in Herb Stratum: ()	0 % Cover of Bioti		Pre	esent? Yes	● No ○		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (De	scribe to	the depth ne	eded to document	the indi	cator or cor	firm the a	absence of indicators.)	
Depth	0-1 (Matrix			dox Featu		1 2	Tantuna	Demonstra
(inches)	Color (<u> </u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR	3/2	100%					Silt Loam	root mass
5-10	10YR	2/1	100%					Silt Loam	
10-20	10YR	3/2	100%					Silt Loam	
		-		-					
1 5 0 . 0							21	-ti Di Dan-Linian M	M-1-4.
		•		s, unless otherwis			ins ²Loca	ation: PL=Pore Lining. M=	
Histosol ((Аррпсаі	DIE LO AII EKK	Sandy Redox		,			lematic Hydric Soils: ³
	pedon (A2)			Stripped Matri				1 cm Muck (A9) (•
Black His				Loamy Mucky		- 1)		2 cm Muck (A10)	
Hydroger	Sulfide (A4)			Loamy Gleyed				Reduced Vertic (I	·
Stratified	Layers (A5)	(LRR C)		Depleted Matr		_,		✓ Other (Explain in	` '
1 cm Muc	ck (A9) (LRR	D)		Redox Dark S	` ,)		Uther (Explain in	Remarks)
Depleted	Below Dark S	Surface (A1	1)	Depleted Dark	•	•			
Thick Dar	k Surface (A1	2)		Redox depres		. ,		2	
Sandy Mu	uck Mineral (S	51)		Vernal Pools (Indicators of hydrog wetland hydrology	phytic vegetation and
Sandy Gle	eyed Matrix (54)						wettaria riyarology	must be present.
Restrictive L	ayer (if pres	sent):							
Type:								Hydric Soil Present?	Yes No
Depth (inc	hes):							nyunc son Present?	Yes S NO C
Remarks:									
aquic moistu	re regime								
Hydrolog	v								
Wetland Hyd									
		imum of	one required	; check all that ap					dicators (2 or more required)
	Vater (A1)			Salt Crust (E	•				s (B1) (Riverine)
_ ~	er Table (A2)			Biotic Crust		(D12)			eposits (B2) (Riverine)
	n (A3) arks (B1) (Noi	arivorino)		Aquatic Inve				_	its (B3) Riverine)
	Deposits (B2		rino)	_ ` ` `		s along Living	a Poots (C2	_	atterns (B10) Water Table (C2)
	osits (B3) (No			Presence of	•		y Roots (Ca	Crayfish Bu	• •
	Soil Cracks (B		,			n in Plowed S	inils (CA)		/isible on Aerial Imagery (C9)
	on Visible on A		iery (B7)	☐ Thin Muck S			013 (00)	Shallow Aqu	* *
	ained Leaves		jery (D7)	Other (Expla				FAC-neutral	
Field Observ		. ,				,			
Surface Water		Yes	O No •	Depth (inc	hes):		1		
Water Table P		Yes					1		
Saturation Pre				Depth (inc	nes):		Wetla	and Hydrology Present?	Yes No
(includes capil		Yes	● No ○	Depth (inc	hes):	0			
Describe Red	corded Data	(stream	gauge, mon	itor well, aerial ph	otos, pre	evious inspe	ections), i	f available:	
Remarks:									

Project/Site: Deschutes LWI		City/County:_	Sunriver/De	eschutes Sampling Date: 07-May-10
Applicant/Owner: Deschutes County				State: OR Sampling Point: SP 113
Investigator(s): Alessandra Capretti, Adam Merrill		Section, To	wnship, Ra	ange: S 35 T 20 S R 10 E
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (concave,	convex, none): hummocky Slope: 0.0% / 0.0
Subregion (LRR): LRR B	 Lat.: 4;	3.7908		Long.: -121.5039 Datum: NAD 83
bil Map Unit Name: W: Water		,		NWI classification:
e climatic/hydrologic conditions on the site typical for	this time of year?	yes.	• No (
are Vegetation, Soil, or Hydrology	significantly			Iormal Circumstances" present? Yes No
	_			•
3 — , — , 3	_ naturally pro			eded, explain any answers in Remarks.) ations, transects, important features, etc.
<u> </u>			1111 1002	ations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	_{d?} Yes ◉ No ○
Wetland Hydrology Present? Yes 💿 No 🗆				
Remarks:				
VEGETATION - Use scientific names of p	Nanto	Dominant		
VEGETATION - Ose scientific flames of		Species? _		
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	
1,	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2		0.0%		
3	0	0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
4		0.0%		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	r	Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
1. Salix geyerlana	10	1 00.0%		·
2		0.0%		Prevalence Index worksheet: Total % Cover of: Multiply by:
3.		0.0%		OBL species 90 x 1 = 90
4.	0	0.0%		FACW species 10 x 2 = 20
5	0	0.0%		FAC speciles0 x 3 =0
	10	= Total Cove	r	FACU species 0 x 4 = 0
Herb Stratum (Plot size:				UPL speci es x 5 = 0
1. Carex nebrascensis		30.0%	OBL	Column Totals: 100 (A) 110 (B)
2 Carex aquatilis 3 Juncus balticus	10	60.0%	FACW	Prevalence Index = B/A = 1.100
4.		0.0%	TACW	
5		0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0 1
7	0	0.0%		☐ Morphological Adaptations 1 ¹ / ₂ 'rovide supporting
8,		0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10		0.0%		
11,	100	= Total Cove	r	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		,		be present, unless disturbed or problematic.
	0	0.0%		
1.				Hydrophytic
1. 2.	0	0.0%		
	0	= Total Cove	r	Vegetation Present? Yes No
0		= Total Cove	r	Vegetation

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descrip			.ne deptir ne					absence of interea	•
Depth _	Color (m	Matrix			dox Featu %		Loc2	Toyturo	Domarke
(inches)				Color (moist)	76	Type ¹	LOC-	Texture	Remarks thick root mass
0-3	10YR	3/2	100%					Silty Clay Loam	thick root mass
3-8	10YR	3/2	100%					Silty Clay Loam	
8-20	10YR	2/1	100%					Silty Clay Loam	
				-					
Type: C=Conc	entration. D=	=Depletio	n. RM=Reduce	ed Matrix, CS=Cover	ed or Coat	ted Sand Gra	ins ² Loca	ation: PL=Pore Lini	ng. M=Matrix
Hydric Soil In	dicators: (Applicat	ole to all LRR	s, unless otherwis	e noted.))		Indicators fo	r Problematic Hydric Soils: ³
Histosol (A1	1)			Sandy Redox	(S5)			1 cm Mucl	(A9) (LRR C)
Histic Epipe				Stripped Matri	x (S6)			2 cm Mucl	(A10) (LRR B)
Black Histic				Loamy Mucky	Mineral (F	1)		Reduced \	/ertic (F18)
Hydrogen S		DD 0)		Loamy Gleyed	l Matrix (F	2)		Red Paren	t Material (TF2)
_	ayers (A5) (L			Depleted Matr	ix (F3)			✓ Other (Exp	olain in Remarks)
_	(A9) (LRR D		4)	Redox Dark S	urface (F6)			
	elow Dark Su		1)	Depleted Dark	Surface ([F7)			
	Surface (A12	•		Redox depres	sions (F8)			3 Indicators of	hydrophytic vegetation and
	k Mineral (S1			Vernal Pools (F9)				drology must be present.
	ed Matrix (S4								
Restrictive Lay	yer (if prese	ent):							
Restrictive Lay		ent):						Hydric Soil Pre	sent? Vac 💿 Na 🗋
Restrictive Lay		ent):						Hydric Soil Pre	sent? Yes No
Restrictive Lay		ent):						Hydric Soil Pre	sent? Yes • No
Restrictive Lay Type: Depth (inche	es):		ON HYDROL	OGY INDICATORS	S.			Hydric Soil Pre	sent? Yes No
Restrictive Lay Type: Depth (inche	es):		ON HYDROL	OGY INDICATORS	S.			Hydric Soil Pre	sent? Yes No
Restrictive Lay Type: Depth (inche	es):		ON HYDROL	OGY INDICATORS	S.			Hydric Soil Pre	sent? Yes No
Type: Depth (inche Remarks: YDRIC SOILS	es):		ON HYDROL	OGY INDICATORS	5.			Hydric Soil Pre	sent? Yes No
Restrictive Lay Type: Depth (inche	es):		ON HYDROL	OGY INDICATORS	S.			Hydric Soil Pre	sent? Yes • No
Type: Depth (inche Remarks: YDRIC SOILS	es):	BASED	ON HYDROL	OGY INDICATORS	S.			Hydric Soil Pre	sent? Yes No
Type:	es):	BASED ators:		OGY INDICATORS					sent? Yes No
Type:	a ASSUMED blogy Indicators (minir	BASED ators:			(ylad			Seconda	
Restrictive Lay Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro	assis ASSUMED blogy Indicators (minimizer (A1)	BASED ators:		; check all that an	y)(y)(311)			Seconda	ary Indicators (2 or more required
Restrictive Lay Type: Depth (inche Remarks: YDRIC SOILS Lydrology Vetland Hydro Surface Wa High Water	assisis ASSUMED blogy Indicators (minimizer (A1) Table (A2)	BASED ators:		; check all that an	oply) 311) (B12)	(B13)		Seconda Wate	ary Indicators (2 or more required er Marks (B1) (Riverine)
Restrictive Lay Type: Depth (inche Remarks: YDRIC SOILS Aydrology Vetland Hydro Primary Indica Surface Wa High Water Saturation (assisis ASSUMED blogy Indicators (minimizer (A1) Table (A2)	BASED ators:		; check all that ar	oply) 311) (B12) ertebrates			Seconda Wate	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
Primary Indica Surface Wa High Water Water Mark	ology Indicators (minimater (A1) Table (A2) (A3)	BASED ators: mum of o	one required	; check all that an Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo		g Roots (C3	Seconda Wate Sedi Drift Drain	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine)
Type:	ology Indicators (minimater (A1) Table (A2) (A3) ss (B1) (Nonr	BASED ators: mum of e	one required	; check all that an Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Living	g Roots (C3	Second:	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10)
Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro Surface Wa High Water ✓ Saturation (Water Mark Sediment D Drift deposi	blogy Indicators (minimater (A1) Table (A2) (A3) (A3) (A3) (A5) (A5) (A6)	BASED ators: mum of ((Nonriverence)	one required	; check all that and Salt Crust (Eagle Biotic Crust Aquatic Inventor Hydrogen Salt Oxidized Rh	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Living		Seconda Wate Sedi Drift Drain Dry :	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2)
Type: Depth (inche Remarks: YDRIC SOILS Surface Wa High Water ✓ Saturation (Water Mark Sediment D Drift deposi Surface Soil	blogy Indicators (minimater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	ators: mum of ((Nonriverence)	one required rine)	; check all that and Salt Crust (Eagle Biotic Crust Aquatic Inventor Hydrogen Salt Oxidized Rh	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Seconda Wate Sedi Drift Drait Cray Satu	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Pestrictive Lay Type: Depth (inche Remarks: YDRIC SOILS Dydrology Vetland Hydro Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation	ablogy Indicators (minimater (A1) Table (A2) (A3) as (B1) (Nonr Deposits (B2) its (B3) (Non	ators: mum of of (Nonriver) (Nonriver) eriverine)	one required rine)	; check all that an Salt Crust (E Biotic Crust Aquatic Invo	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C	r (C1) s along Living Iron (C4) n in Plowed S		Seconda Wate Sedi Drift Drain Cray Satu Shall	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro Primary Indica Surface Wa High Water ✓ Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain	blogy Indicators (minimater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	ators: mum of of (Nonriver) (Nonriver) eriverine)	one required rine)	; check all that ar Salt Crust (E Biotic Crust Aquatic Inversion Oxidized Rh	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C	r (C1) s along Living Iron (C4) n in Plowed S		Seconda Wate Sedi Drift Drain Cray Satu Shall	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro Surface Wa High Water ✓ Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain	blogy Indicators (minimater (A1) Table (A2) (A3) (S (B1) (Nonr Deposits (B2) its (B3) (Non I Cracks (B6) Visible on Ae med Leaves (I	ators: mum of ((Nonrivereriverine) erial Imag (B9)	one required rine) Jery (B7)	; check all that ar Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C'	r (C1) s along Living Iron (C4) n in Plowed S		Seconda Wate Sedi Drift Drain Cray Satu Shall	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Type: Depth (inche Remarks: YDRIC SOILS Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat	ology Indicators (minimater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	ators: mum of of the control of the	one required rine) gery (B7) No •	; check all that ag Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C' ain in Rem	r (C1) s along Living Iron (C4) n in Plowed S 7) arks)		Seconda Wate Sedi Drift Drain Cray Satu Shall	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Restrictive Lay Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat Surface Water P Water Table Pre	cology Indicators (minimater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	ators: mum of electric (Nonriver electric electric) erial Imag (B9) Yes Yes	one required rine) gery (B7) No No No	; check all that ar Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C' ain in Rem	r (C1) s along Living Iron (C4) n in Plowed S	Goils (C6)	Seconda Sedin Drift Drain Cray Satu Shall	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) meutral Test (D5)
Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat Surface Water P Water Table Pre Saturation Prese	bology Indicators (minimater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A7) (A7) (A7) (A7) (A7) (A7) (A7) (A7	ators: mum of of the control of the	one required rine) gery (B7) No No No No	; check all that ag Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C: ain in Rem	r (C1) s along Living Iron (C4) n in Plowed S 7) arks)	Goils (C6)	Seconda Wate Sedi Drift Drain Cray Satu Shall	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) meutral Test (D5)
Type: Depth (inche Remarks: YDRIC SOILS Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat Surface Water P Water Table Pre Saturation Prese Sincludes capillar	ology Indicators (minimater (A1) Table (A2) (A3) Is (B1) (Nonraleposits (B2) Its (B3) (Nonraleposits (B6) Visible on Action (B1) Visible on Action (B1) Visible on Action (B2) Visible on Action (B2) Visible on Action (B3) Visible on Action (B4) Visible	ators: mum of of (Nonriverseriverine) (Nonriverseriverine) erial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No	; check all that ag Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C' ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S 7) narks)	Goils (C6)	Seconda Sedi Drift Drait Cray Satu Shall FAC-	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) meutral Test (D5)
Type: Depth (inche Remarks: YDRIC SOILS Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat Surface Water P Water Table Pre Saturation Prese Sincludes capillar	cology Indicators (minimater (A1) Table (A2) (A3) Sts (B1) (Nonreleposits (B2) Sits (B3) (Nonreleposits (B6) Visible on Action (B1) Visible on Action (B2) Sits (B3) (Nonreleposits (B4) Visible on Action (B1) Visible on Action (B1) Visible on Action (B2) Sits (B3) (Nonreleposits (B4) Visible on Action (B2) Sits (B3) (Nonreleposits (B4)) Visible on Action (B4) Visibl	ators: mum of of (Nonriverseriverine) (Nonriverseriverine) erial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No	; check all that ar Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C' ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S 7) narks)	Goils (C6)	Seconda Sedi Drift Drait Cray Satu Shall FAC-	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) meutral Test (D5)
Restrictive Lay Type: Depth (inche Remarks: YDRIC SOILS Iydrology Vetland Hydro Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat Surface Water P Water Table Pre Saturation Prese includes capillar Describe Reco	cology Indicators (minimater (A1) Table (A2) (A3) Sts (B1) (Nonreleposits (B2) Sits (B3) (Nonreleposits (B6) Visible on Action (B1) Visible on Action (B2) Sits (B3) (Nonreleposits (B4) Visible on Action (B1) Visible on Action (B1) Visible on Action (B2) Sits (B3) (Nonreleposits (B4) Visible on Action (B2) Sits (B3) (Nonreleposits (B4)) Visible on Action (B4) Visibl	ators: mum of of (Nonriverseriverine) (Nonriverseriverine) erial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No	; check all that ag Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C' ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S 7) narks)	Goils (C6)	Seconda Sedi Drift Drait Cray Satu Shall FAC-	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) meutral Test (D5)
Type: Depth (inche Remarks: YDRIC SOILS Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Surface Soil Inundation Water-Stain Field Observat Surface Water P Water Table Pre Saturation Prese includes capillar	cology Indicators (minimater (A1) Table (A2) (A3) Sts (B1) (Nonreleposits (B2) Sits (B3) (Nonreleposits (B6) Visible on Action (B1) Visible on Action (B2) Sits (B3) (Nonreleposits (B4) Visible on Action (B1) Visible on Action (B1) Visible on Action (B2) Sits (B3) (Nonreleposits (B4) Visible on Action (B2) Sits (B3) (Nonreleposits (B4)) Visible on Action (B4) Visibl	ators: mum of of (Nonriverseriverine) (Nonriverseriverine) erial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No	; check all that ag Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (C' ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S 7) narks)	Goils (C6)	Seconda Sedi Drift Drait Cray Satu Shall FAC-	ary Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) meutral Test (D5)

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

Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES	Sampling Date: 17	-Nov-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	_ Sampling Point:	SP 114
Investigator(s): Sarah Hartung		Section, To	wnship, R	ange: \$ 2 T 2	1 S R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): concave	Slope:	0.0% / 0.0 °
Subregion (LRR): LRR A	Lat.: 43	.7873		Long.: -121.5066	Date	um: NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes					fication: PSSC	
Are climatic/hydrologic conditions on the site typical for this		? Yes	• No			
	significantly			Jormal Circumstances" p		No O
				•		
Are Vegetation . , Soil . , or Hydrology . Summary of Findings - Attach site map sh	naturally pro			eded, explain any answe ations, transects,		atures, et
Hydrophytic Vegetation Present? Yes No		1 31		<u> </u>	<u> </u>	<u> </u>
Hydric Soil Present? Yes No		Is the	Sampled A			
Wetland Hydrology Present?		within	a Wetland	_{d?} Yes • No ·		
Remarks:						
Remarks.						
VEGETATION - Use scientific names of plan	its.	Dominant				
рин	Absolute	Species? . Rel.Strat.	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:	% Cover		Status	Number of Dominant Spe		
1. Pinus contorta	40	100.0%	FAC	That are OBL, FACW, or		3(A)
2,		0.0%		Total Number of Domina	ant	
3		0.0%		Species Across All Strata		3 (B)
4,		0.0%		Percent of dominant S	Snecies	
Sapling/Shrub Stratum (Plot size:	40	= Total Cove		That Are OBL, FACW,		0% (A/B)
1, Betula glandulosa	30	100.0%	FACW	Prevalence Index work	ksheet:	
2	0	0.0%		Total % Cover or		
34.	_	0.0%			0 x 1 = _	0
4 5.		0.0%			30 x 2 = _	60
3					$\frac{140}{0}$ x 3 =	<u>420</u> 0
Herb Stratum (Plot size:	30	= Total Cove	er	FACU speci es	x 4 =	0
1. Poa sp.	100	100.0%	FAC	UPL speci es —	x 5 = -	
2.	0	0.0%		Column Totals:	(~)	
3	0	0.0%		Prevalence Index	= B/A =0.0	000
4.		0.0%		Hydrophytic Vegetatio		
5.		0.0%		☐ Dominance Test is		
6		0.0%		Prevalence Index		
8.		0.0%			laptations ¹ (Provide or on a separate sh	
9.	0	0.0%		Wetland Non-Vas	•	•
10.		0.0%		Problematic Hydr	ophytic Vegetation	¹ (Explain)
11.	0	0.0%		¹ Indicators of hydric s	oil and wetland hw	drology must
W 1 W 01 1 (01 1 1	100	= Total Cove	er	be present, unless dis		
Woody Vine Stratum (Plot size:	0	D 0.00/				
1,		0.0%		Hydrophytic		
2	0			Vegetation	No ○	
% Para Cround in Harb Stratum.		= Total Cove	;1	Present? Yes		
% Bare Ground in Herb Stratum: 0				<u> </u>		
Remarks:						
Poa sp. assumed FAC.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil									Sampling Point:	SP 114
Profile Descr	ription: (Des	cribe to t	he depth ne	eeded to documer	nt the inc	licator or c	onfirm the	absence of indicat	ors.)	
Depth		Matrix		Re	dox Feat	ures				
(inches)	Color (m	noist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks	
0-7	10YR	2/1	100%					peat		
7-20	10YR	3/1	100%					Silt Loam	with high lev	el of organic
1Type: C=Con	 centration. D=	-Depletion	. RM=Reduce	ed Matrix, CS=Cover	ed or Coa	 ated Sand G	rains ² Loca	ation: PL=Pore Lining	g. M=Matrix	
Hydric Soil I	ndicators: ((Applicab	le to all LRF	Rs, unless otherwi	se noted	l.)		Indicators for F	Problematic Hydric So	oils: ³
Histosol (•			Sandy Redox				2 cm Muck ((A10)	
=	pedon (A2)			Stripped Mati	. ,				Material (TF2)	
Black Hist				Loamy Mucky		. ,	in MLRA 1)	✓ Other (Expla	ain in Remarks)	
	Sulfide (A4)			Loamy Gleye		F2)				
	Below Dark Su	•	1)	☐ Depleted Mat		6)		2		
	k Surface (A12	,		Depleted Dar		-			rophytic vegetation and ogy must be present,	
	ick Mineral (S1	-		Redox depres					ed or problematic.	
Restrictive L	eyed Matrix (S					,			· .	
	ayer (ii pres	ent):								
Type:	l\							Hydric Soil Prese	ent? Yes • No	\circ
Depth (inc	nes):							,	100 0 110	
Hydrology										
Wetland Hyd				المام ماد ماا المماد ما	ادرامه			Casandan	. Indicators (minimum	m of two rocking
1 1	· · · · · · · · · · · · · · · · · · ·	num or c	ne required	d; check all that a					y Indicators (minimur	
	Vater (A1) er Table (A2)			∟ Water-Stair 1, 2, 4A, ar		s (B9) (exce	pt MLRA	☐ Water- 4A, and	Stained Leaves (B9) (Mid 4B)	LRA 1, 2,
✓ Saturatio				Salt Crust (B11)			Draina	ge Patterns (B10)	
Water Ma	(- /			Aquatic Inv	,	s (B13)			ason Water Table (C2)	
	Deposits (B2))		Hydrogen S					tion Visible on Aerial Im	anery (C9)
☐ Drift depo	-	,				es on Living	Roots (C3)		rphic Position (D2)	agery (07)
	or Crust (B4)			Presence of	•	•	110013 (00)		v Aquitard (D3)	
Iron Depo						on in Tilled S	oils (CA)		eutral Test (D5)	
	Soil Cracks (B6	.)				Plants (D1)	. ,		Ant Mounds (D6) (LRR	۸)
	on Visible on A		acry (R7)				(LKK A)			A)
	Vegetated Cor		, ,	Other (Exp	ain in ker	narks)		L FIOST FI	leave Hummocks (D7)	
Field Observ	ations:									
Surface Water	Present?	Yes			ches):					
Water Table P		Yes		= - (ches):	15	Wetla	nd Hydrology Pres	ent? Yes • N	No O
Saturation Pre (includes capil		Yes	No 🔾	Depth (in	ches):	0	Wetla	ind riyurology rics	icitt.	
		(stream o	gauge, mon	itor well, aerial ph	notos, pr	evious insp	ections), if	available:		
					•					
Remarks:										
-										

Project/Site: Deschutes County LWI		City/County:	Sunriver/De	eschutes	Sampling Dat	te: 04-May-1	0
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling I	Point: S	SP 201
Investigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, Ra	ange: S 7 T	 20 S R 1	1 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): concav	e Slo	pe: 1.09	% / 0.6
Subregion (LRR): LRR B	 Lat.: 43			Long.: -121.4536		Datum: N	— ——— AD 83
		1.0032			ification, DOGG		
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope		. Vac	• No		ification: PSSC	;	
e climatic/hydrologic conditions on the site typical for th	•					es • No	\circ
Are Vegetation, Soil, or Hydrology	significantly			lormal Circumstances"			
Are Vegetation	naturally pro			eded, explain any answ			
Summary of Findings - Attach site map s	nowing Sai	mpling po	oint ioca	ations, transects	, importan	t reature	es, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area			
Hydric Soil Present? Yes No			a Wetland	Vec (A) No (
Wetland Hydrology Present? Yes No		Within	a wetiand	4 :			
Remarks: Off-site determination.							
VEGETATION - Use scientific names of pla	ants.	DominantSpecies?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat.	Indicator Status				
1.	0	0.0%		Number of Dominant Sp That are OBL, FACW, o		2	(A)
2		0.0%					
3	0	0.0%		Total Number of Domin Species Across All Strat		2	(B)
4	0	0.0%					
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of dominant That Are OBL, FACW	•	100.0%	(A/B)
1. Salix geyeriana	15	100.0%	FACW	Prevalence Index wo	rksheet:		
2	0	0.0%		Total % Cover	of: Multip	oly by:	
3	0	0.0%		OBL specifes	90 x 1 =	90	_
4	0	0.0%		FACW species	25 x 2 =	= 50	_
5	0	0.0%		FAC species	<u> </u>	0	_
Herb Stratum (Plot size:	15	= Total Cove	er	FACU species	<u> </u>		_
1 Caray aquatilis	85	✓ 85.0%	OBL	UPL specijes —	x 5 =	- 0	_
2 Typha latifolia		5.0%	OBL	Column Totals:	115 (A)	140	(B)
3. Phalaris arundinacea		10.0%	FACW	Prevalence Inde	x = B/A =	1.217	
4		0.0%		Hydrophytic Vegetati	on Indicators:		
5	0	0.0%		✓ Dominance Test			
6		0.0%		✓ Prevalence Inde	x is ≤3.0 ¹		
7		0.0%		Morphological A	daptations 1 1.	rovide supp	oorting
8		0.0%		data in Remarks	or on a separa	ite sheet)	-
9 10.		0.0%		Problematic Hyd	Irophytic Veget	tation 1 (¹ դ	olain)
11.		0.0%					
	100	= Total Cove	er	1 Indicators of hydri be present, unless di	c soil and wetla sturbed or prol	and hydrolog blematic.	gy must
Woody Vine Stratum (Plot size:							
1		0.0%					
2		0.0%		Hydrophytic Vegetation	· · ·		
	0	= Total Cove	er	Present? Yes	● No ○		
% Bare Ground in Herb Stratum: () 9	6 Cover of Bioti		-	Present?	.,,,		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	-		ne deptir ne	eaea to ao				iirm the a	absence of indicators.)	
		Matrix		0-1 (Featu		1 2	T	Damanda
(inches)	Color (m			Color (mo	DIST)	%	Type ¹	Loc ²	Texture	Remarks
0-4		2/1							Silt Loam	
4-10	10YR	2/1							Clay Loam	
10-22	10YR	2/1	80%	10YR	3/4	20%	C	M	Clay Loam	
1 Fumo. C. Com		Donlotion	- DM Doduo	d Matrix CC	Covered	or Coats	d Cond Croi	no 21 000	stion. DI Doro Lining M. I	- Matrix
1 Type: C=Cond		•					ed Sand Grai	ns ²Loca	ation: PL=Pore Lining. M=I	
Hydric Soil In Histosol (A		Аррисар	ie to all LRR		r nerwise n Redox (S5)					ematic Hydric Soils: ³
Histic Epip	•				ed Matrix (S				1 cm Muck (A9) (· ·
Black Histic					y Mucky Mir		1)		2 cm Muck (A10)	` '
Hydrogen	Sulfide (A4)			_	y Gleyed Ma				Reduced Vertic (F	·
Stratified L	ayers (A5) (L	RR C)			ted Matrix (,		Red Parent Materi	• •
1 cm Muck	(A9) (LRR D))			Dark Surfa				✓ Other (Explain in	Remarks)
Depleted B	Below Dark Su	rface (A1	1)		ted Dark Su		7)			
	Surface (A12	•			depression		•		2	
	ck Mineral (S1				l Pools (F9)				Indicators of hydrop wetland hydrology	
Sandy Gley	yed Matrix (S4	1)							wettand frydrology	must be present.
Restrictive La	yer (if prese	ent):								
Type:									Hydric Soil Present?	Yes ● No ○
Depth (inch	ies):								nyunc 3011 Fresent:	res 🙂 NO 🔾
Remarks:										
assume hydi	RIC SOILS B	ASED O	N PERSISTE	NT SATUR	ATION.					
	•									
Wetland Hydr	rology Indica									
Wetland Hydr	rology Indica		one required		that apply					licators (2 or more required)
Wetland Hydr Primary Indic Surface Wa	rology Indica cators (mininater (A1)		one required	Salt	that apply Crust (B11))			Water Marks	s (B1) (Riverine)
Wetland Hydr Primary Indic Surface Wa	rology Indica cators (mininater (A1) or Table (A2)		one required	Salt	that apply Crust (B11) ic Crust (B1) 2)	D12)		Water Marks Sediment De	s (B1) (Riverine) eposits (B2) (Riverine)
Wetland Hydr Primary Indic Surface Wate High Wate Saturation	rology Indica cators (mininater (A1) or Table (A2) (A3)	num of o	one required	Salt Biot Aqu	that apply Crust (B11) ic Crust (B1 atic Inverte) 2) brates (Water Marks Sediment De Drift Deposi	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine)
Wetland Hydr Primary Indic Surface W: High Wate Saturation Water Mar	rology Indicators (minimater (A1) r Table (A2) (A3) ks (B1) (Nonr	num of o		Salt Biot Aqu Hyd	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic) 2) brates (de Odor	(C1)	Poots (C2)	Water Marks Sediment De Drift Deposi Drainage Pa	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10)
Wetland Hydr Primary Indic Surface Wate High Wate Saturation Water Mar Sediment I	rology Indica cators (mininater (A1) or Table (A2) (A3) dks (B1) (Nonr Deposits (B2)	num of (iverine) (Nonriver	rine)	Salt Biot Aqu Hyd	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos) 2) brates (de Odor spheres	(C1) along Living	Roots (C3)	Water Marks Sediment De Drift Deposi Drainage Pa Dry Season	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2)
Wetland Hydr Primary Indic Surface Water High Water Saturation Water Mar Sediment I Drift depos	rology Indica cators (mininater (A1) or Table (A2) (A3) ks (B1) (Nonropeposits (B2) sits (B3) (Nonropeposits (B3)	num of o iverine) (Nonriver eriverine)	rine)	Salt Biot Aqu Hyd Oxic	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Rec) 2) brates (de Odor spheres duced I	(C1) along Living ron (C4)		Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8)
Wetland Hydr Primary Indic Surface Wat High Wate Saturation Water Mar Sediment I Drift depos	rology Indicators (minimater (A1) or Table (A2) (A3) oks (B1) (Nonropeposits (B2) sits (B3) (Nonobil Cracks (B6)	num of o iverine) (Nonriver eriverine)	ine)	Salt Biot Aqu Hyd Oxic	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Rec ent Iron Rec) 2) brates (de Odor spheres duced li duction	(C1) along Living ron (C4) in Plowed S		Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9)
Wetland Hydr Primary Indic Surface W: High Wate Saturation Water Mar Sediment I Drift depos	rology Indica cators (mininater (A1) or Table (A2) (A3) ks (B1) (Nonro Deposits (B2) sits (B3) (Nonro oil Cracks (B6)	num of one of on	ine)	Salt Biot Aqu Hyd Oxic	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Rec ent Iron Rec in Muck Surfa	bbrates (de Odorspheres duced Induction ace (C7)	(C1) along Living ron (C4) in Plowed Se		Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) lisible on Aerial Imagery (C9) uitard (D3)
Wetland Hydr Primary Indic Surface Water High Water Saturation Water Mar Sediment I Drift depos Surface So Inundation Water-Stai	rology Indica cators (minimater (A1) or Table (A2) (A3) dks (B1) (Nonr Deposits (B2) sits (B3) (Non- bil Cracks (B6) or Visible on Ae	num of one of on	ine)	Salt Biot Aqu Hyd Oxic	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Rec ent Iron Rec	bbrates (de Odorspheres duced Induction ace (C7)	(C1) along Living ron (C4) in Plowed Se		Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) lisible on Aerial Imagery (C9) uitard (D3)
Wetland Hydr Primary Indic Surface Wi High Wate Saturation Water Mar Sediment I Drift depos Surface So Inundation Water-Stai	rology Indica cators (minimater (A1) or Table (A2) (A3) ks (B1) (Nonr Deposits (B2) sits (B3) (Nonr bil Cracks (B6) or Visible on Ae ined Leaves (E	num of c iverine) (Nonriver eriverine) erial Imag 39)	rine) ery (B7)	Salt Biot Aqu Hyd Oxic Pres Rec Thir	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Rec ent Iron Rec n Muck Surfa er (Explain i	brates (de Odor spheres duced Induction ace (C7) in Rema	(C1) along Living ron (C4) in Plowed Se		Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) lisible on Aerial Imagery (C9) uitard (D3)
Wetland Hydr Primary Indic Surface W: High Wate Saturation Water Mar Sediment I Drift depos Surface So Inundation Water-Stai Field Observa Surface Water	rology Indicated the cators (minimater (A1) or Table (A2) (A3) or Table (B2) or Table (B3) (Noncoll Cracks (B6) or Visible on Aedined Leaves (Eations:	iverine) (Nonriver eriverine) erial Imag 39) Yes	ery (B7)	Salt Biot Aqu Hyd Oxic Pres Rec Thir	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Recent Iron Recent in Muck Surfa er (Explain i	bbrates (de Odor spheres duced li duction face (C7) in Rema	(C1) along Living ron (C4) in Plowed Se		Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) lisible on Aerial Imagery (C9) uitard (D3)
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Wetland Hydr Primary Indic Surface W: High Wate Saturation Water Mar Sediment I Drift depos Surface So Inundation Water-Stai Field Observa Surface Water I Water Table Pre Saturation Pres	rology Indica cators (minimater (A1) or Table (A2) (A3) ks (B1) (Nonr Deposits (B2) sits (B3) (Nonr oil Cracks (B6) on Visible on Aed ined Leaves (Eations: Present?	iverine) (Nonriver eriverine) erial Imag 39) Yes	ery (B7) No • No •	Salt Biot Aqu Hyd Oxic Pres Recc Thir	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Recent Iron Recent in Muck Surfa er (Explain i	b) ide Odor spheres duced I duction ace (C7 in Rema	(C1) along Living ron (C4) in Plowed Se	oils (C6)	Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) lisible on Aerial Imagery (C9) aitard (D3) Test (D5)
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Wetland Hydr Primary Indic Surface Water High Water Saturation Sediment I Drift depose Inundation Water-Stail Field Observation Water Table Prosaturation Press (includes capillation) Describe Recommended	rology Indica cators (mininater (A1) or Table (A2) (A3) ks (B1) (Nonropeosits (B2) sits (B3) (Nonroll Cracks (B6) or Visible on Aedined Leaves (Eations: Present? esent? early fringe)	iverine) (Nonrivereriverine) erial Imag 39) Yes Yes Yes	ery (B7) No No No No No No	Salt Biot Aqu Hyd Oxic Pres Recc Thir Oth	that apply Crust (B11) ic Crust (B1 atic Invertel rogen Sulfic dized Rhizos sence of Rec ent Iron Rec n Muck Surfa er (Explain i	b) 12) 2brates (de Odor spheres duced I duction face (C7) in Rema	(C1) along Living ron (C4) in Plowed Si) irks)	oils (C6) Wetla	Water Marks Sediment De Drift Deposi Drainage Pa Dry Season Crayfish Bur Saturation V Shallow Aqu FAC-neutral	s (B1) (Riverine) eposits (B2) (Riverine) ts (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) lisible on Aerial Imagery (C9) aitard (D3) Test (D5)

Project/Site: Deachutes County LWI		City/County:	Sunriver/De	escnutes	Sampl	ing Date: 04	-May-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	npling Point:	SP 202
Investigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, Ra	ange: S 12	T 20 S	R 10 E	
Landform (hillslope, terrace, etc.): Flat		Local relief	(concave,	convex, none): flat		Slope:	1.0% / 0.6
Subregion (LRR): LRR B	Lat .: 43	.8537		Long.: -121.4812		Date	um: NAD 83
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slo	nnes				ssification		
e climatic/hydrologic conditions on the site typical for		Yes	● No ○				
re Vegetation , Soil , or Hydrology	significantly	disturbed?	Are "N	ormal Circumstance	s" present?	Yes	No 🔾
are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If nea	eded, explain any an	swers in Re	emarks)	
Summary of Findings - Attach site map							atures, etc.
Hydrophytic Vegetation Present? Yes No •		la tha	Communad A				
Hydric Soil Present? Yes No •			Sampled A	V O N- (
Wetland Hydrology Present? Yes O No 🗨		within	a Wetland	l? 163 ○ 140 ○			
Remarks:							
	_						
VEGETATION - Use scientific names of p	olants.	DominantSpecies?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test w	orksheet:		
1,	-	0.0%	Otatus	Number of Dominant That are OBL, FACW			1 (A)
2.		0.0%		mat are obe, thow	, or TAO.		
3		0.0%		Total Number of Dor Species Across All St		;	2 (B)
4.	0	0.0%		Species / toross / till ot	ata.		
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of domina That Are OBL, FAC		ΕΛ.	0% (A/B)
1	0	0.0%		Prevalence Index v	vorksheet:		
2		0.0%		Total % Cov	er of:	Multiply by	<u>: </u>
3		0.0%		OBL speci es	0	x 1 = _	0
4 5.		0.0%		FACW species	0	x 2 = _	0
J		0.0%		FAC speci es	55	x 3 = _	165
Herb Stratum (Plot size:	0	= Total Cove	er	FACU speci es	45	x 4 = _	180 0
1 Achillea millefolium	40	4 0.0%	FACU	UPL speci es	0	x 5 =	
2. Poa sp.		55.0%	FAC	Column Totals:	100	(A) _	345 (B)
3. Taraxacum officinale	5	5.0%	FACU	Prevalence In	dex = B/A	= 3.4	150
4		0.0%		Hydrophytic Veget	ation Indic	ators:	
5		0.0%		☐ Dominance Te	est is > 50°	%	
6		0.0%		Prevalence In	dex is ≤3.0	o ¹	
7		0.0%		Morphologica	. Adaptatio	ons 1 ¹ rovid	le supporting
8. 9.		0.0%		data in Remai		-	
10		0.0%		Problematic F	lydrophytic	: Vegetation	1 (ˈ ːɒlain)
11		0.0%					
	100	= Total Cove	er	1 Indicators of hyd			
Woody Vine Stratum (Plot size:				be present, unless	uistai bea	or problema	
1		0.0%					
2		0.0%		Hydrophytic Vegetation	_	_	
	0	= Total Cove	er	Present? You	es O N	o	
% Bare Ground in Herb Stratum: ()	% Cover of Bioti	ic Crust ()					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc		Matrix		D _a .	dox Featu	iroc			
Depth (inches)	Color (i			Color (moist)	oox Featt	Type 1	Loc2	Texture	Remarks
0-8	7.5YR	2.5/2	100%	COIOI (IIIOI31)		Турс		Loam	Remarks
	-								
8-20	10YR	2/2						Sandy Clay	
					-			-	
									_
1 Type: C=Co	ncentration. [=Depletio	n. RM=Reduc	ed Matrix, CS=Cover	ed or Coat	ted Sand Gra	ins ² Loca	ntion: PL=Pore Lining. N	/i=Matrix
Hydric Soil	Indicators:	(Applicab	le to all LRF	s, unless otherwis	e noted.))		Indicators for Pro	oblematic Hydric Soils:3
Histosol (Sandy Redox				1 cm Muck (A9	•
	pedon (A2)			Stripped Matri				2 cm Muck (A1	
Black His	tic (A3)			Loamy Mucky		-1)		Reduced Vertic	• • •
Hydroger	Sulfide (A4)			Loamy Gleyed	,	•			• •
Stratified	Layers (A5) (LRR C)		Depleted Matr		۷)		Red Parent Ma	
1 cm Mud	k (A9) (LRR I	D)		Redox Dark S		`		U Other (Explain	in Remarks)
Depleted	Below Dark S	Surface (A1	1)			•			
☐ Thick Dar	k Surface (A1	2)		Depleted Dark		(F /)			
Sandy Mu	ıck Mineral (S	1)		Redox depres				3 Indicators of hydronical properties of the second contract of t	rophytic vegetation and
	eyed Matrix (S			Vernal Pools (₍ F9)			wetland hydrolo	gy must be present.
	-								
Restrictive I	aver (if nres	ent)·							
	ayer (if pres	sent):							
Type:		sent):						Hydric Soil Present	:? Yes ○ No ●
Type: Depth (inc		sent):						Hydric Soil Present	? Yes ○ No •
Type:		sent):						Hydric Soil Present	? Yes ○ No •
Type: Depth (inc		sent):						Hydric Soil Present	? Yes ○ No •
Type: Depth (inc		sent):						Hydric Soil Present	? Yes ○ No •
Type: Depth (inc		sent):						Hydric Soil Present	? Yes ○ No •
Type: Depth (inc Remarks:	hes):	sent):						Hydric Soil Present	? Yes ○ No •
Type: Depth (inc Remarks:	hes):	sent):						Hydric Soil Present	? Yes ○ No •
Type:	hes):							Hydric Soil Present	? Yes ○ No ●
Type:	hes):y	cators:	one requirec	l; check all that an	(ylac				? Yes ○ No ● ndicators (2 or more required)
Type:	hes):y	cators:	one required	l; check all that an ☐ Salt Crust (F				Secondary I	
Type:	y Irology Indi cators (min	cators:	one required		311)			Secondary I	ndicators (2 or more required)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2)	cators:	one required	Salt Crust (E	311) (B12)	(B13)		Secondary I	ndicators (2 or more required) arks (B1) (Riverine)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2)	cators:	one required	Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates			Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Nor	cators: imum of o		Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates ulfide Odo	r (C1)	a Roots (C3	Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Nor Deposits (B2)	cators: imum of o		Salt Crust (E Biotic Crust Aquatic Inve	B11) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Livin	g Roots (C3	Secondary I Water Ma Sediment Drift Depo	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Nor Deposits (B2) osits (B3) (No	cators: imum of o nriverine)) (Nonriver neriverine)		Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of	(B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Livin Iron (C4)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Sease	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) Osits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Nor Deposits (B2) osits (B3) (No oil Cracks (B6)	cators: imum of of of of the control	ine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Secondary I Water Ma Sediment Drift Dep Drainage Dry Sease Crayfish I Saturation	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) Distits (B3) Riverine) Patterns (B10) Don Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) rks (B1) (Nor Deposits (B2) osits (B3) (Nor oil Cracks (B6) on Visible on A	cators: imum of of of of the control	ine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C7	r (C1) s along Living Iron (C4) n in Plowed S		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seast Crayfish E Saturation Shallow A	ndicators (2 or more required) arks (B1) (Riverine) arks (B2) (Riverine) becomes (B3) Riverine) Patterns (B10) becomes (B4) arrows (C8) In Visible on Aerial Imagery (C9) Aquitard (D3)
Type:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Nor Deposits (B2) osits (B3) (No oil Cracks (B6)	cators: imum of of of of the control	ine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C7	r (C1) s along Living Iron (C4) n in Plowed S		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seast Crayfish E Saturation Shallow A	ndicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) Distits (B3) Riverine) Patterns (B10) Don Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
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