SOIL Sampling Point: SP-1004a

Profile Descri Depth	Matr	X	Redo	x Featur	es					
inches)	Color (moist		Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-10	10YR 2/2	100	, ,				Loamy/Claye		Silty clay loa	m
				· ——						
				·						
							_			
Typo: C=Con	contration D=I	Opplotion PM-	Reduced Matrix, (orod or C	natad S	and Grains	² Location: D	L=Pore Lining, M=	Matrix
•		•	RRs, unless oth			Jaleu S			roblematic Hydri	
Histosol (A		ilcable to all L	Sandy Re					1 cm Muck (_	, 30115 .
Histic Epip	· ·		Stripped N					-	A3) (LRR 6) A10) (LRR B)	
					•			-	ese Masses (F12)	(I DD D)
Black Histi	Sulfide (A4)		Loamy Mu Loamy Gl	-				Reduced Ver	` '	(LKK D)
		IR C)							Material (F21)	
	_ayers (A5) (LR	ik C)	Depleted Redox Da	,	•				` '	2)
	k (A9) (LRR D) Below Dark Sur	food (A11)	Depleted		` '			-	/ Dark Surface (F2 in in Remarks)	2)
	Surface (A12)	, ,	Redox De					Otrier (Expia	iii iii Reiliaiks)	
	, ,		Redox De	pression	S (FO)					
	cky Mineral (S1 yed Matrix (S4		rs of hydrophytic v	voqotatio	n and wo	tland by	drology must be	procent unlo	es disturbed or pr	oblomatic
		maioato	is of flydropflytio	regetatio	ii ana wo	tiana ny	drology must be	prosont, unio	oo diotarbed or pr	bioman
estrictive La	yer (if observe	ed):								
Restrictive La Type: Depth (incl	yer (if observe Ro hes):		_				Hydric Soil Pro	esent?	Yes <u>X</u>	No_
Restrictive La Type: Depth (incl	yer (if observe Ro hes):	ed): ock					Hydric Soil Pro	esent?	Yes <u>X</u>	_ No_
Restrictive La Type: Depth (incl Remarks: hallow problet	yer (if observe Ro hes): matic soils	ed): ock					Hydric Soil Pro	esent?	Yes <u>X</u>	_ No _
Restrictive La Type: Depth (incl Remarks: hallow probler	yer (if observe Ro hes): matic soils	ed): ock 10					Hydric Soil Pro	esent?	Yes X	No_
Restrictive La Type: Depth (incl Remarks: hallow problet YDROLOG	hes): matic soils	ed): Dock 10	red; check all that	apply)			•		Yes X	
Restrictive La Type: Depth (incl Remarks: hallow problet YDROLOG	hes): matic soils Y ology Indicato	ed): Dock 10	red; check all that Salt Crust				Sec	ondary Indica		
Pestrictive La Type: Depth (incl Remarks: hallow problet PURDLOG Vetland Hydro Surface W	hes): matic soils Y ology Indicato	ed): Dock 10		(B11)			<u>Sec</u>	ondary Indica Water Marks	ators (minimum of	two requ
Restrictive La Type: Depth (incl Remarks: hallow problet YDROLOG Vetland Hydro Surface W	hes): matic soils SY ology Indicate tors (minimum dater (A1) er Table (A2)	ed): Dock 10	Salt Crust	(B11) st (B12)	tes (B13)		Sec	ondary Indica Water Marks Sediment De	ators (minimum of 5 (B1) (Riverine)	two requ
YDROLOG Yufand Hydro Surface W High Wate Saturation	hes): matic soils SY ology Indicate tors (minimum dater (A1) er Table (A2)	ed): ock 10 rs: of one is requir	Salt Crust Biotic Cru	: (B11) st (B12) vertebra			Sec	ondary Indica Water Marks Sediment De	ators (minimum of s (B1) (Riverine) eposits (B2) (River s (B3) (Riverine)	two requ
YDROLOG /etland Hydrorimary Indicat Surface W High Wate Saturation Water Mar	matic soils SY ology Indicate tors (minimum dater (A1) er Table (A2) (A3)	ed): ock 10 rs: of one is requir	Salt Crust Biotic Cru Aquatic In	t (B11) st (B12) overtebra Sulfide (Odor (C1))	Sec	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa	ators (minimum of s (B1) (Riverine) eposits (B2) (River s (B3) (Riverine)	two requ
Type: Depth (incl Remarks: hallow problet Primary Indicat Surface W High Wate Saturation Water Mar Sediment I	matic soils Tology Indicate tors (minimum fater (A1) er Table (A2) (A3) eks (B1) (Nonri	rs: of one is required verine)	Salt Crust Biotic Cru Aquatic In Hydrogen	t (B11) st (B12) overtebra Sulfide (Rhizosph	Odor (C1) eres on l) ₋iving R	<u>Sec</u>	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa	ators (minimum of 6 (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2)	two requ
Restrictive La Type: Depth (incl Remarks: shallow probler Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos X Surface So	matic soils matic soils mology Indicate tors (minimum fater (A1) er Table (A2) (A3) eks (B1) (Nonri Deposits (B2) (sits (B3) (Nonr bil Cracks (B6)	rs: of one is require verine) Nonriverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduc	Odor (C1) eres on l ced Iron () ₋iving R [C4)	Sec	ondary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season ¹ Crayfish Buri	ators (minimum of 6 (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2)	two requ
Print Depos X Surface Scalinundation	pyer (if observed Riches): matic soils matic soils ology Indicated tors (minimum Pater (A1) er Table (A2) (A3) rks (B1) (Nonri Deposits (B2) (sits (B3) (Nonroil Cracks (B6) Visible on Aeronal Pater (B2)	rs: of one is require verine) Nonriverine) iverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil	oots (C3)s (C6)	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa Dry-Season V Crayfish Burn Saturation Vi Shallow Aqui	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) ts (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imitard (D3)	two requ
rype: Depth (inclemarks: nallow probler YDROLOG Yetland Hydre Surface W High Wate Saturation Water Mar Sediment I Drift Depos X Surface So Inundation	matic soils matic soils mology Indicate tors (minimum fater (A1) er Table (A2) (A3) eks (B1) (Nonri Deposits (B2) (sits (B3) (Nonr bil Cracks (B6)	rs: of one is require verine) Nonriverine) iverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil	oots (C3)s (C6)	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa Dry-Season V Crayfish Burn Saturation Vi	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) ts (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imitard (D3)	two requ
Primary Indicat Saturation Water Mar Sediment I Drift Depos X Surface So Inundation Water-Stai	matic soils matic soils matic soils matic soils sy ology Indicate tors (minimum rater (A1) er Table (A2) (A3) eks (B1) (Nonri Deposits (B2) (sits (B3) (Nonri bil Cracks (B6) visible on Aer ined Leaves (B	rs: of one is require verine) Nonriverine) iverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil	oots (C3)s (C6)	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa Dry-Season V Crayfish Burn Saturation Vi Shallow Aqui	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) ts (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imitard (D3)	two requ
PROLOG Wetland Hydro Trimary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos X Surface So Inundation Water-Stai	matic soils matic soils matic soils matic soils matic soils matic soils for longy Indicate tors (minimum fater (A1) for Table (A2) (A3) for (B1) (Nonri Deposits (B2) (for (B3) (Nonri Dil Cracks (B6) for Visible on Aeri ined Leaves (Bations: Present?	rs: of one is require verine) Nonriverine) iverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	st (B11) st (B12) avertebra Sulfide (Rhizosph of Reduc on Reduc c Surface plain in F	Odor (C1) eres on L ced Iron (ction in Ti e (C7) Remarks)) _iving R C4) lled Soil	oots (C3)s (C6)	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa Dry-Season V Crayfish Burn Saturation Vi Shallow Aqui	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) ts (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imitard (D3)	two requ
Print Depos X Surface Water Stail Observa Surface Water Stail Observa Surface Water Vater Table Print Depos X Surface Water Vater Table Print Depos X Surface Water Vater Table Print Depos X Surface Solution Control of the Surface Water Vater Table Print Depos X Surface Water Table Print Depos X	matic soils matic soils matic soils matic soils matic soils matic soils for ology Indicate tors (minimum tater (A1) or Table (A2) (A3) rks (B1) (Nonri Deposits (B2) (sits (B3) (Nonri oil Cracks (B6) of Visible on Aer ined Leaves (B present?	rs: of one is requii verine) Nonriverine) iverine) ial Imagery (B7 9) Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce surface plain in F Depth (i Depth (i	Odor (C1) peres on Led Iron (ction in Tie (C7) Remarks) nches):) _iving R C4) lled Soil	oots (C3)s (C6)	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa Dry-Season ' Crayfish Burn Saturation Vi Shallow Aqui FAC-Neutral	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im itard (D3) Test (D5)	two requ
Restrictive La Type: Depth (incl Remarks: hallow probler Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos X Surface So Inundation Water-Stai Field Observa Surface Water Vater Table Prosaturation Press	matic soils matic soils matic soils matic soils matic soils matic soils for long Indicators (minimum rater (A1) (A3) (Nonri Deposits (B2) (Nonri Deposits (B3) (Nonri Depos	rs: of one is require verine) Nonriverine) iverine) ial Imagery (B7 9) Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	st (B11) st (B12) avertebra Sulfide (Rhizosph of Reduc on Reduc c Surface plain in F	Odor (C1) peres on Led Iron (ction in Tie (C7) Remarks) nches):) _iving R C4) lled Soil	oots (C3)s (C6)	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pa Dry-Season ' Crayfish Burn Saturation Vi Shallow Aqui FAC-Neutral	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im itard (D3) Test (D5)	two requ
PROLOG Type: Depth (incl demarks: hallow probler Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos X Surface So Inundation Water-Stai Gield Observa Furface Water Table Pricaturation Presencies	matic soils These in the serve	rs: of one is require verine) Nonriverine) iverine) ial Imagery (B79) Yes Yes Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Ird Thin Muck Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce C Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	Sec oots (C3) s (C6) Wetland Hyd	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pat Dry-Season V Crayfish Burn Saturation Vi Shallow Aqui FAC-Neutral	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im itard (D3) Test (D5)	two requ
Restrictive La Type: Depth (incl Remarks: hallow probler YDROLOG YDROLOG YDROLOG YUTTO TO THE TO	matic soils These in the serve	rs: of one is require verine) Nonriverine) iverine) ial Imagery (B79) Yes Yes Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce C Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	Sec oots (C3) s (C6) Wetland Hyd	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pat Dry-Season V Crayfish Burn Saturation Vi Shallow Aqui FAC-Neutral	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im itard (D3) Test (D5)	two requ
Restrictive La Type: Depth (incl Remarks: Shallow probler IYDROLOG Wetland Hydre Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos X Surface So Inundation Water-Stai Field Observa Surface Water Water Table Po Saturation Pres Sincludes capill	matic soils These in the serve	rs: of one is require verine) Nonriverine) iverine) ial Imagery (B79) Yes Yes Yes Yes	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Ird Thin Muck Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	Sec oots (C3) s (C6) Wetland Hyd	ondary Indica Water Marks Sediment De Drift Deposits Drainage Pat Dry-Season V Crayfish Burn Saturation Vi Shallow Aqui FAC-Neutral	ators (minimum of to (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im itard (D3) Test (D5)	two requ

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1004B
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank		Section,	Γownship, Ra	ange: 1S 28E 036		
Landform (hillside, terrace, etc.): Ridge		Local relief (c	oncave, conv	vex, none): Flat	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.431324			Long: -	119.288999	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent	slopes			NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical for	or this time of	f year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology s	significantly o	disturbed? A	re "Normal (Circumstances" present?	Yes X No)
Are Vegetation , Soil , or Hydrology r				plain any answers in Rer		
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes No	. X	Is the	Sampled A	rea		
	X		n a Wetland		No X	
Wetland Hydrology Present? Yes No	X					
Remarks:						
\(\(\text{\tint{\text{\tin}\text{\ticl{\text{\tex{\tex						
VEGETATION – Use scientific names of p	Absolute	Dominant	Indicator	Г		
<u>Tree Stratum</u> (Plot size: 30 ft)	% Cover	Dominant Species?	Status	Dominance Test wor	ksheet:	
1				Number of Dominant S	Species That	
2.				Are OBL, FACW, or F	AC:	0 (A)
3				Total Number of Domi Across All Strata:	•	1 (B)
·		=Total Cover		Percent of Dominant S		<u> </u>
Sapling/Shrub Stratum (Plot size: 15 ft)				Are OBL, FACW, or F.	•	.0% (A/B)
1.						
2				Prevalence Index wo		
3.				Total % Cover of		ply by:
5.				OBL species 0		0
J		Total Cover		FACW species 0 FAC species 0		0
Herb Stratum (Plot size: 5 ft)				FACU species 10		40
Pseudoroegneria spicata	80	Yes	UPL	UPL species 10)5 x 5 = 5	525
2. Bromus tectorum	20	No	UPL	Column Totals: 11	15 (A) 5	665 (B)
3. Achillea millefolium	10	No No	FACU	Prevalence Index :	= B/A = <u>4.91</u>	
Ericameria nauseosa 5.	5	No	UPL	Lludrophytic Vocatet	ion Indicators	
				Hydrophytic Vegetati Dominance Test is		
7.				Prevalence Index		
8.				Morphological Ada	aptations ¹ (Provide s	supporting
	115	Total Cover		data in Remark	s or on a separate s	sheet)
Woody Vine Stratum (Plot size: 5 ft))			Problematic Hydro	ophytic Vegetation ¹	(Explain)
1				¹ Indicators of hydric so		
2		=Total Cover		be present, unless dis	turbed or problemat	IC.
		rotal Govel		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % C	over of Bioti	c Crust		Present? Yes	No X	_
Remarks:						
Upland plot.						

SOIL Sampling Point: SP-1004B

Profile Desc Depth	ription: (Describe t Matrix	o the depth		ıment tl x Featur		ator or o	confirm the absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/3	100	, ,				Loamy/Clayey	Silt Loam	
	·								
			_						
			_						
¹Type: C=Co	oncentration, D=Deple	etion, RM=F	Reduced Matrix, C	S=Cove	red or C	oated S	and Grains. ² Loc	ation: PL=Pore Lining, M=N	fatrix.
Hydric Soil I	ndicators: (Applical	ole to all LF	RRs, unless othe	rwise n	oted.)		Indicato	rs for Problematic Hydric	Soils ³ :
Histosol	(A1)		Sandy Red	lox (S5)			1 cm	n Muck (A9) (LRR C)	
Histic Ep	ipedon (A2)		Stripped M	atrix (S6	3)		2 cm	n Muck (A10) (LRR B)	
Black His	stic (A3)		Loamy Mu	cky Mine	eral (F1)		Iron-	Manganese Masses (F12) (LRR D)
Hydroger	n Sulfide (A4)		Loamy Gle	yed Mat	trix (F2)		Red	uced Vertic (F18)	
Stratified	Layers (A5) (LRR C)	Depleted N	/latrix (F	3)			Parent Material (F21)	
	ck (A9) (LRR D)		Redox Dar					Shallow Dark Surface (F22)
	Below Dark Surface	(A11)	Depleted D)	Othe	er (Explain in Remarks)	
	rk Surface (A12)		Redox Dep	ression	s (F8)				
	ucky Mineral (S1)	2							
	leyed Matrix (S4)	Indicators	s of hydrophytic v	egetatio	n and we	tland hy	drology must be pres	ent, unless disturbed or prob	olematic.
	.ayer (if observed):								
Type:			_						
Depth (in	iches):		_				Hydric Soil Presen	t? Yes	No X
HYDROLO									
_	Irology Indicators:								
	ators (minimum of or	ne is require						ry Indicators (minimum of ty	vo required)
	Water (A1) ter Table (A2)		Salt Crust Biotic Crus					er Marks (B1) (Riverine) ment Deposits (B2) (Riverir	20)
Saturatio	` '		Aquatic Inv		tes (R13)			Deposits (B3) (Riverine)	16)
	arks (B1) (Nonriveri i	ne)	Hydrogen :		, ,			nage Patterns (B10)	
	t Deposits (B2) (Non		Oxidized R					Season Water Table (C2)	
	osits (B3) (Nonriveri	-	Presence of			-		fish Burrows (C8)	
	Soil Cracks (B6)	,	Recent Iro	n Reduc	tion in Ti	lled Soil		ration Visible on Aerial Imag	gery (C9)
Inundation	on Visible on Aerial In	nagery (B7)	Thin Muck	Surface	(C7)		Shal	low Aquitard (D3)	
Water-St	ained Leaves (B9)		Other (Exp	lain in R	Remarks)		FAC	-Neutral Test (D5)	
Field Observ	/ations:								
Surface Water	er Present? Yes	·	No X	Depth (i	nches):				
Water Table		·			nches):				
Saturation Pr		<u> </u>	No X	Depth (i	nches):		Wetland Hydrolo	gy Present? Yes	No X
(includes cap	_ · · · · · · · · · · · · · · · · · · ·		.,						
Describe Red	corded Data (stream	gauge, mon	itoring well, aerial	photos	, previous	s inspec	tions), if available:		
Remarks:									
1									

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow	1	Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1005a
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank	k	Section, 7	Γownship, R	ange: <u>1S 28E 036</u>		
Landform (hillside, terrace, etc.): Ridge		Local relief (co	oncave, con	vex, none): Concave	Slop	e (%): 0
Subregion (LRR): <u>LRR B</u> Lat: <u>45.431289</u>			Long: -	119.288708	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent	t slopes			NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	re "Normal (Circumstances" present?	Yes X No	
Are Vegetation, SoilX_, or Hydrology	naturally prol	olematic? (I	f needed, ex	xplain any answers in Ren	narks.)	
SUMMARY OF FINDINGS – Attach site m	ap showin	g samplin	g point lo	cations, transects,	important feat	ures, etc.
	lo X		Sampled A			
<u>——</u>	lo	withi	n a Wetland	!? Yes X	No	
<u> </u>	lo					
Remarks: Vernal Pool						
VEGETATION – Use scientific names of p	olants.					
True Otrobono (Districtor 00 ft	Absolute	Dominant	Indicator	Damin and Task word	lanka ada	
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.	% Cover	Species?	Status	Dominance Test worl		
2.				Number of Dominant S Are OBL, FACW, or FA	•	0 (A)
3.				Total Number of Domin	•	. (5)
4	·	=Total Cover		Across All Strata:		2 (B)
Sapling/Shrub Stratum (Plot size: 15 ft)	- Total Covel		Percent of Dominant S Are OBL, FACW, or FA	•	0% (A/B)
1.	· ′			, , ,		
2.				Prevalence Index wo	rksheet:	
3				Total % Cover of:	Multi	ply by:
4.				OBL species 0		0
5	· ——	=Total Cover		FACW species 2 FAC species 0		4
Herb Stratum (Plot size: 5 ft)		- Total Cover		FAC species 0 FACU species 5		<u>0</u> 20
1. Navarretia intertexta	2	No	FACW	UPL species 15		75
Taeniatherum caput-medusae	15	Yes	UPL	Column Totals: 22		99 (B)
3. Poa secunda	5	Yes	FACU	Prevalence Index =		
4.						
5				Hydrophytic Vegetati	on Indicators:	
6				Dominance Test is		
7				Prevalence Index		
8				l —	aptations ¹ (Provide s s or on a separate s	
Woody Vino Stratum (Diet size) Eff		=Total Cover			s or on a separate s ophytic Vegetation ¹	•
Woody Vine Stratum (Plot size: 5 ft 1.	_)				. , .	` ' '
1. 2.				¹ Indicators of hydric so be present, unless dist		
	·	=Total Cover		Hydrophytic		
				Vegetation		
% Bare Ground in Herb Stratum 80 %	Cover of Bioti	c Crust		Present? Yes_	No X	<u>-</u>
Remarks:			-1			
Problematic vegetation - early season visit suggests	mucn more g	rowin for verna	aı pool plant	S		

SOIL Sampling Point: SP-1005a

Clay Loam Clay Loam	Clay Loam Clay	Depth Matrix	Redox Featu			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, Units of Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, Units of Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, Units of Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Indicators for Problematic Hydric Solis**: Indicators for Problematic Pydric Solis**: Indicators for Pydrogen Sulfide (A4) **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Location: Indicators for Problematic Pydric Solis**: Indicators for Pydrogen Sulfide (A2) **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Location: Indicators for Problematic Pydric Solis**: Indicators for Muck (A9) (LRR D) **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, CS=Covered or Coated Sand Grains. **Location: Indicators for Problematic Pydric Solis**: Indicators for Problematic Solis**: Indicators for Problematic Pydric Solis**: Indicators for Problematic Pydric Pydr	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Total Coated Sand Grains. Tocation: PL=Pore Lining, M=Matrix, pdf: Coated Sand Grains. Total Call Sand Matrix, pdf: Coated Sand Grains. Total Call Sand Matrix, pdf: Call Sand Call	(inches) Color (moist) %	Color (moist) %	Type ¹ Loc ²	Texture	Remarks
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Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Factorial Present? Vater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X No Saturation Present? Yes No X No Saturation Present? Yes No X No Saturation Present? Yes No No X No Saturation Present? Yes No No No No No No No Saturation Visible on Aerial Imagery (C9 Saturation Visible on Aerial Imagery (C9 Saturation Present (D5) Saturation Present? Yes No No No No No No No No No N	Drift Deposits (B3) (Nonriverine) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Inufface Water Present? Yes No X Depth (inches): Depth (inches): Auturation Present? Yes No X Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			ates (B13)	Drift Depos	reposits (B2) (Riverine) tts (B3) (Riverine)
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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 X Depth (inches): Vater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	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) ield Observations: urface Water Present? Yes No X Depth (inches): //ater Table Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): wetland Hydrology Present? Yes X No nocludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver	Hydrogen Sulfide Oxidized Rhizospl	ates (B13) Odor (C1) heres on Living Re	Drift Depos Drainage P oots (C3) Dry-Seasor	reposits (B2) (Riverine) atts (B3) (Riverine) atterns (B10) Water Table (C2)
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Gurface Water Present? Yes No X Depth (inches): Vater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Secrible Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ield Observations: urface Water Present? Yes	Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6)	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	ates (B13) Odor (C1) heres on Living Reduced Iron (C4) ction in Tilled Soil	Drift Depos Drainage P oots (C3) Dry-Seasor Crayfish Bu s (C6) Saturation	reposits (B2) (Riverine) its (B3) (Riverine) atterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9
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Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	aturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9)	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu y (B7) Thin Muck Surface Other (Explain in I	ates (B13) Odor (C1) heres on Living Roced Iron (C4) ction in Tilled Soil e (C7) Remarks)	Drift Depos Drainage P oots (C3) Dry-Seasor Crayfish Bu s (C6) Saturation Shallow Aq	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9 uitard (D3)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu y (B7) Thin Muck Surface Other (Explain in I	ates (B13) Odor (C1) heres on Living Roced Iron (C4) ction in Tilled Soil e (C7) Remarks)	Drift Depos Drainage P oots (C3) Dry-Seasor Crayfish Bu s (C6) Saturation Shallow Aq	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9 uitard (D3)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Water Table Present? Yes	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Thin Muck Surface Other (Explain in I No X Depth (No X Depth (ates (B13) Odor (C1) heres on Living Reduced Iron (C4) ction in Tilled Soil e (C7) Remarks) (inches):	Drift Depos Drainage P Oots (C3) Dry-Seasor Crayfish Bu Is (C6) Saturation Shallow Aq FAC-Neutra	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) rit Water Table (C2) rrows (C8) //isible on Aerial Imagery (C9 ruitard (D3) rit Test (D5)
		Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Thin Muck Surface Other (Explain in I No X Depth (No X Depth (ates (B13) Odor (C1) heres on Living Reduced Iron (C4) ction in Tilled Soil e (C7) Remarks) (inches):	Drift Depos Drainage P Oots (C3) Dry-Seasor Crayfish Bu Is (C6) Saturation Shallow Aq FAC-Neutra	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) ritwater Table (C2) rrows (C8) //isible on Aerial Imagery (C9 ruitard (D3) rity Test (D5)
Remarks:	emarks:	Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in I No X Depth (No X Depth (ates (B13) Odor (C1) heres on Living Reliced Iron (C4) ction in Tilled Soil e (C7) Remarks) (inches): (inches):	Drift Depos Drainage P Dry-Seasor Crayfish Bu Saturation Shallow Aq FAC-Neutra Wetland Hydrology Pre	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) ritwater Table (C2) rrows (C8) //isible on Aerial Imagery (C9 ruitard (D3) rity Test (D5)
		Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in I No X Depth (No X Depth (ates (B13) Odor (C1) heres on Living Reliced Iron (C4) ction in Tilled Soil e (C7) Remarks) (inches): (inches):	Drift Depos Drainage P Dry-Seasor Crayfish Bu Saturation Shallow Aq FAC-Neutra Wetland Hydrology Pre	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) ritwater Table (C2) rrows (C8) //isible on Aerial Imagery (C9 ruitard (D3) rity Test (D5)
		Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) X Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Nater Table Present? Yes Saturation Present? Yes includes capillary fringe) Describe Recorded Data (stream gaug	Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in I No X Depth (No X Depth (ates (B13) Odor (C1) heres on Living Reliced Iron (C4) ction in Tilled Soil e (C7) Remarks) (inches): (inches):	Drift Depos Drainage P Dry-Seasor Crayfish Bu Saturation Shallow Aq FAC-Neutra Wetland Hydrology Pre	reposits (B2) (Riverine) rits (B3) (Riverine) ratterns (B10) ritwater Table (C2) rrows (C8) //isible on Aerial Imagery (C9 ruitard (D3) rity Test (D5)

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1005b
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank	(Section,	Γownship, Ra	ange: 1S 28E 036		
Landform (hillside, terrace, etc.): Ridge		Local relief (co	oncave, conv	vex, none): Flat	Slop	oe (%): 0
Subregion (LRR): LRR B Lat: 45.431346			Long: -1	119.288699	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent	slopes			NWI classit	fication: N/A	
Are climatic / hydrologic conditions on the site typical for		of year?	Yes X	No (If no, ex	olain in Remarks.)	
Are Vegetation, Soil, or Hydrology)
Are Vegetation , Soil , or Hydrology				plain any answers in Re	· <u></u>	
SUMMARY OF FINDINGS – Attach site ma					·	ures, etc.
Hydrophytic Vegetation Present? Yes N	o X	Is the	Sampled A	rea		
	o X	withi	n a Wetland	? Yes	No X	
Wetland Hydrology Present? Yes No	o <u>X</u>					
Remarks:						
VEGETATION – Use scientific names of p		Daminant	la dia atau			
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:	
1				Number of Dominant		0 (A)
				Are OBL, FACW, or F		0 (A)
4.				Total Number of Dom Across All Strata:	inant Species	2 (B)
Cambinar/Chamb Charles (Distains 45.6)	, 	=Total Cover		Percent of Dominant	•	00/ /A/D
Sapling/Shrub Stratum (Plot size: 15 ft 1.)			Are OBL, FACW, or F	AC: <u>0</u>	.0% (A/B
1 2				Prevalence Index wo	rksheet:	
3.				Total % Cover of	f: Mult i	iply by:
4.				OBL species	x 1 =	0
5				· —	x 2 =	0
(8)		=Total Cover		· —	0 x 3 =	0
Herb Stratum (Plot size: 5 ft) 1. Bromus tectorum	50	Yes	UPL			<u>40</u> 500
Pseudoroegneria spicata	50	Yes	UPL			540 (B)
Achillea millefolium	10	No	FACU	Prevalence Index	`	` ' /
4.						
5.				Hydrophytic Vegetat	ion Indicators:	
6.				Dominance Test	s >50%	
7				Prevalence Index		
8					aptations ¹ (Provide	
W 1 1/2 01 1	<u>110</u>	=Total Cover			s or on a separate	•
Woody Vine Stratum (Plot size: 5 ft)				ophytic Vegetation ¹	` ' '
1 2.				¹ Indicators of hydric s be present, unless dis		
		=Total Cover		Hydrophytic	-	
				Vegetation		
% Bare Ground in Herb Stratum % 0	Cover of Biot	ic Crust		Present? Yes	No X	_
Remarks:						
Upland plot.						

SOIL Sampling Point: SP-1005b

Profile Desc Depth	cription: (Describe Matrix	to the depth		ı ment tl ‹ Featur		ator or	confirm the ab	sence of indicat	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 3/3	100	(Loamy/Cla		Silt Loam	
<u> </u>	.011.0/0	.50						,-,	Oilt Edaill	
¹Type: C=Co	oncentration, D=Dep	etion, RM=F	Reduced Matrix, C	S=Cove	ered or C	oated S	and Grains.	² Location: PL=	Pore Lining, M=	Matrix.
Hydric Soil	Indicators: (Applica	ble to all LF	RRs, unless othe	rwise n	oted.)		In	dicators for Pro		
Histosol	(A1)		Sandy Red	ox (S5)				1 cm Muck (A9) (LRR C)	
Histic Ep	pipedon (A2)		Stripped M	atrix (S6	3)			2 cm Muck (A1	0) (LRR B)	
Black Hi	stic (A3)		Loamy Mu	cky Mine	eral (F1)			Iron-Manganes	se Masses (F12)	(LRR D)
Hydroge	n Sulfide (A4)		Loamy Gle	yed Mat	trix (F2)			Reduced Verti	c (F18)	
Stratified	l Layers (A5) (LRR C	;)	Depleted M	1atrix (F	3)			Red Parent Ma	aterial (F21)	
1 cm Mu	ıck (A9) (LRR D)		Redox Dar	k Surfac	e (F6)			Very Shallow [Oark Surface (F2	2)
Depleted	d Below Dark Surface	e (A11)	Depleted D	ark Sur	face (F7)		Other (Explain	in Remarks)	
Thick Da	ark Surface (A12)		Redox Dep	ression	s (F8)					
Sandy M	lucky Mineral (S1)									
Sandy G	sleyed Matrix (S4)	³ Indicators	s of hydrophytic ve	egetatio	n and we	etland h	ydrology must b	e present, unless	s disturbed or pro	oblematic.
Restrictive I	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil F	Present?	Yes	No X
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
	cators (minimum of o	ne is require					<u>S</u> e	econdary Indicato	•	two required)
	Water (A1)		Salt Crust	. ,			_	Water Marks (, .	
	iter Table (A2)		Biotic Crus		(D.10)			_	osits (B2) (River	ine)
Saturatio	` '		Aquatic Inv		` '	,			(B3) (Riverine)	
	arks (B1) (Nonriveri	•	Hydrogen S			•		_ Drainage Patte		
	nt Deposits (B2) (Nor posits (B3) (Nonriver		Oxidized R Presence of			-	.0018 (C3)	Crayfish Burro	ater Table (C2)	
	Soil Cracks (B6)	ille)	Recent Iron				ls (C6)	_	ws (Co) ble on Aerial Ima	agery (C9)
	on Visible on Aerial I	magery (B7)				ilica ooi		Shallow Aquita		igery (OO)
	tained Leaves (B9)		Other (Exp)		FAC-Neutral T		
Field Observ					,			_		
Surface Wat	er Present? Ye	S	No X	Depth (i	nches):					
Water Table	Present? Ye	s	No X	Depth (i	nches):					
Saturation Pr	resent? Ye	s	No X	Depth (i	nches):		Wetland H	ydrology Preser	nt? Yes	No X
(includes cap	oillary fringe)									
Describe Re	corded Data (stream	gauge, mon	itoring well, aerial	photos	, previou	s insped	ctions), if availal	ole:		
Remarks:										

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1006a
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank		Section,	Γownship, Ra	nge: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge	Lo	ocal relief (c	oncave, conv	ex, none): Concave	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.429973			Long: -1	19.291305	Datum:	WGS 1984
Soil Map Unit Name: Bakeoven-Morrow Complex, 2 to 2	20 percent slo	pes		NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical for	this time of	year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology si	ignificantly di			· · · · · · · · · · · · · · · · · · ·)
Are Vegetation , Soil X , or Hydrology n				plain any answers in Ren		
SUMMARY OF FINDINGS – Attach site ma				•	,	ures, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the	Sampled A	rea		
			n a Wetland		No	
Wetland Hydrology Present? Yes X No						
Remarks:						
Vernal Pool						
VEGETATION – Use scientific names of pl						
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test work	ksheet:	
1				Number of Dominant S	•	
2.				Are OBL, FACW, or FA		1 (A)
4.				Total Number of Domi	•	2 (B)
	=	Total Cover		Percent of Dominant S	Species That	
Sapling/Shrub Stratum (Plot size: 15 ft)				Are OBL, FACW, or FA	AC: <u>50</u>	.0% (A/B)
1 2.				Prevalence Index wo	rkshoot:	
3.				Total % Cover of:		ply by:
4.				OBL species 0		0
5.				FACW species 25	5 x 2 = 5	50
	=	Total Cover		FAC species 0	x 3 =	0
Herb Stratum (Plot size: 5 ft)				FACU species5	x 4 =	20
Navarretia intertexta	5	No	FACW	UPL species 10	x 5 =	50
Taeniatherum caput-medusae	10	Yes	UPL	Column Totals: 40	(A) <u>1</u>	20 (B)
3. Poa secunda	5	No	FACU	Prevalence Index =	= B/A = <u>3.00</u>	
4. Deschampsia spp.	20	Yes	FACW			
5				Hydrophytic Vegetati		
6				Dominance Test is		
7				X Prevalence Index		
8				<u> </u>	aptations ¹ (Provide s s or on a separate s	
Washing Obstance (District	40 =	Total Cover			•	,
Woody Vine Stratum (Plot size: 5 ft)					phytic Vegetation ¹	,
1. 2.				¹ Indicators of hydric so be present, unless dist		
	=	Total Cover		·	,	
				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 80 % Co	over of Biotic	Crust		Present? Yes	No X	=
Remarks:						
Problematic vegetation - early season visit						

SOIL Sampling Point: SP-1006a

Profile Desc Depth	Matr	ix		x Featur						
(inches)	Color (moist		Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-3	10YR 2/2	100			<u> </u>		Loamy/Clay	/ev	Clay Loam	
	101112/2	100		·					Glay Esain	
				·						
T 0-0			-Dadward Matrix (20-0				21	N - Dana Linina M-	N 4 min s
		•	Reduced Matrix, (pated S			L=Pore Lining, M=	
-		olicable to all I	RRs, unless oth				inc		roblematic Hydric	: 50IIS :
Histosol			Sandy Re					_	A9) (LRR C)	
	oipedon (A2)		Stripped N		•			_	A10) (LRR B)	(I DD D)
Black His			Loamy Mu	-				_	iese Masses (F12)	(LKK D)
	n Sulfide (A4)	ND 6\	Loamy Gl					Reduced Ve	,	
	Layers (A5) (LR		Depleted	,	•			_	Material (F21)	0)
	ck (A9) (LRR D)		Redox Da		` '			_	v Dark Surface (F2	2)
	Below Dark Sur	, ,	Depleted					_Other (Expla	in in Remarks)	
	irk Surface (A12)		Redox De	pression	s (F8)					
	lucky Mineral (S1					41 1 1				
	leyed Matrix (S4		ors of flydropflytic v	vegetatio	n and we	uand ny	diology must be	e present, unie	ess disturbed or pro	obiematic
Restrictive L	_ayer (if observe	ed):								
	-									
Type: Depth (ir	Ro	ock 3	_				Hydric Soil P	resent?	Yes	No
Type: _ Depth (ir Remarks:	Ro	ock 3	water				Hydric Soil P	resent?	Yes	No_
Type: _ Depth (ir Remarks:	Ronches):	ock 3	water				Hydric Soil P	resent?	Yes	<u>No</u>
Type: _ Depth (ir Remarks: Problematic :	Ronches):soils - shallow cla	ock 3	water				Hydric Soil P	resent?	Yes	_ No
Type:	Ronches):soils - shallow cla	3 ay soils retain v	water				Hydric Soil P	resent?	Yes	No
Type:	Ronches): soils - shallow cla	ay soils retain v	water	apply)					Yes	
Type:	Ronches): soils - shallow cla	ay soils retain v						condary Indica		
Type:	Ronches): soils - shallow classifications (minimum	ay soils retain v	red; check all that	(B11)				condary Indica Water Marks	ators (minimum of	two requir
Type:	GY drology Indicatorators (minimum Water (A1) ter Table (A2)	ay soils retain v	red; check all that Salt Crust	(B11) st (B12)	tes (B13)			condary Indica Water Marks Sediment De	ators (minimum of s (B1) (Riverine)	two requir
Type:	GY drology Indicatorators (minimum Water (A1) ter Table (A2)	ay soils retain v	red; check all that Salt Crust Biotic Cru	: (B11) st (B12) vertebra				condary Indica Water Marks Sediment De	ators (minimum of s (B1) (Riverine) eposits (B2) (River s (B3) (Riverine)	two requir
Type: Depth (in Remarks: Problematic: YDROLO Vetland Hyd Primary Indic Surface High Wa Saturatic Water M	GY Grology Indicator (minimum Water (A1) ter Table (A2) on (A3)	ay soils retain vors: of one is requi	red; check all that Salt Crust Biotic Cru Aquatic In	t (B11) st (B12) overtebra Sulfide (Odor (C1))	Se	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa	ators (minimum of s (B1) (Riverine) eposits (B2) (River s (B3) (Riverine)	two requir
Type: Depth (in Remarks: Problematic : Problematic : Problematic : Typrology Wetland Hyde Primary Indice Surface : High Wa Saturation Water M Sedimen	GY drology Indicator (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonri	ay soils retain vors: of one is requi	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen	t (B11) st (B12) overtebra Sulfide (Rhizosph	Odor (C1) eres on l) ₋iving R	Se	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa	ators (minimum of s (B1) (Riverine) eposits (B2) (River s (B3) (Riverine) tterns (B10) Water Table (C2)	two requir
Type:	GY drology Indicators (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonri	ay soils retain vors: of one is requiverine) (Nonriverine)	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduc	Odor (C1) eres on l ced Iron () ₋iving R [C4)	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur	ators (minimum of s (B1) (Riverine) eposits (B2) (River s (B3) (Riverine) tterns (B10) Water Table (C2)	two requir
Type:	GY drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) (Nonri to Deposits (B2) (Nonri cosits (B3) (Nonri	ay soils retain vors: of one is requi	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	st (B11) st (B12) evertebra Sulfide (Rhizosph of Reduction Reduction	Odor (C1) eres on leced Iron (etion in Ti) ₋iving R [C4)	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur	ators (minimum of 6 (B1) (Riverine) eposits (B2) (River 9 (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima	two requi
Type: Depth (in Remarks: Problematic : Problematic : Problematic : Type: Problematic : YDROLO Vetland Hyd Surface : High Wa Saturatio Water M Sedimen Drift Dep X Surface : Inundation	GY drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrist Deposits (B2) (Nonrist Cracks (B6))	ock 3 ay soils retain vors: of one is requirely (Nonriverine) iverine) ital Imagery (B7	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima	two requi
Type: Depth (in Remarks: Problematic : Probl	GY drology Indicatorators (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriat Deposits (B2) (Nonriat Deposits (B3) (Nonriat Deposits (B6)) on Visible on Aertained Leaves (B6)	ock 3 ay soils retain vors: of one is requirely (Nonriverine) iverine) ital Imagery (B7	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima	two requi
Type: Depth (in Remarks: Problematic : Probl	GY drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) (Nonri to Deposits (B2) (Nosits (B3) (Nonri Soil Cracks (B6) on Visible on Aertained Leaves (Bayations:	ock 3 ay soils retain vors: of one is requirely (Nonriverine) iverine) ital Imagery (B7	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) eres on Leced Iron (etion in Ties (C7) Remarks)) _iving R C4) lled Soil	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima	two requir
Type: Depth (in Remarks: Problematic : Probl	GY drology Indicators (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonri th Deposits (B2) (Nonri Soil Cracks (B6) on Visible on Aer tained Leaves (B vations: er Present?	ock 3 ay soils retain v ors: of one is requi (Nonriverine) riverine) rial Imagery (B7	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Iro Thin Muck	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduc on Reduc c Surface plain in F	Odor (C1) eres on L ced Iron (ction in Ti e (C7) Remarks)) _iving R C4) lled Soil	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima	two requir
Type: Depth (in Remarks: Problematic : Problematic : Problematic : Problematic : IYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep X Surface : Inundatic Water-Si Field Observ Surface Water	GY Grology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrist Deposits (B3) (Nonrist Deposits (B3) (Nonrist Deposits (B4) (Nonrist Deposits (B5) (Nonrist Deposits (B6) on Visible on Aertained Leaves (B4) vations: er Present?	ock 3 ay soils retain v ors: of one is requi (Nonriverine) riverine) rial Imagery (B7	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Iro Thin Muck Other (Ex	st (B11) st (B12) avertebra Sulfide (Rhizosph of Reduc on Reduc c Surface plain in F	Odor (C1) peres on Led Iron (ction in Tie (C7) Remarks) nches):) _iving R C4) lled Soil	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima itard (D3)	two requi
Type: Depth (ir Remarks: Problematic: Problematic: Problematic: IYDROLO Wetland Hyd Surface: High Wa Saturatic Water M Sedimen Drift Dep X Surface: Inundatic Water-Si Field Observ Surface Water Water Table Saturation Property of the Pro	GY drology Indicator (actors (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrist Deposits (B3) (Nonrist Deposits (B3) (Nonrist Deposits (B3) (Nonrist Deposits (B3) (Nonrist Cracks (B6) on Visible on Aeritained Leaves (Bayations: er Present? Present?	ock 3 ay soils retain v ors: of one is requi (Nonriverine) riverine) rial Imagery (B7 9) Yes Yes Yes	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce surface plain in F Depth (i Depth (i	Odor (C1) peres on Led Iron (ction in Tie (C7) Remarks) nches):) _iving R C4) lled Soil	oots (C3)	condary Indica Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima itard (D3)	ine)
Type: Depth (ir Remarks: Problematic: Problematic: Problematic: Problematic: IYDROLO Wetland Hyd Primary Indic Surface: High Water M Sedimen Drift Dep X Surface: Inundatic Water-Si Field Observ Surface Water Water Table Saturation Proposition of the problematic of the problema	GY drology Indicator (actors (minimum) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrist Deposits (B3) (Nonrist Deposits (B3) (Nonrist Deposits (B3) (Nonrist Deposits (B4) (Nonrist Deposits (B5) (Nonrist Deposits (B6) on Visible on Aertained Leaves (B4) (Nonrist Present? Present? Present?	verine) (Nonriverine) itial Imagery (B7 19) Yes Yes Yes Yes	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	oots (C3)	water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima itard (D3)	ine)
Type: Depth (ir Remarks: Problematic: Problematic: Problematic: Problematic: IYDROLO Wetland Hyd Primary Indic Surface: High Water M Sedimen Drift Dep X Surface: Inundatic Water-Si Field Observ Surface Water Water Table Saturation Proposition of the problematic of the problema	GY drology Indicator (actors (minimum) (Mater (A1)) (Monri at Deposits (B2) (Monri at Deposits (B3) (Monri Cators (B6)) (Monr	verine) (Nonriverine) itial Imagery (B7 19) Yes Yes Yes Yes	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	oots (C3)	water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima itard (D3)	ine)
Type: Depth (ir Remarks: Problematic : Surface : High Water Mater Mater Sediment Drift Depton X Surface : Inundation Water-Sirield Observing Surface Water Table Saturation Profincludes cap	GY drology Indicator (actors (minimum) (Mater (A1)) (Monri at Deposits (B2) (Monri at Deposits (B3) (Monri Cators (B6)) (Monr	verine) (Nonriverine) itial Imagery (B7 19) Yes Yes Yes Yes	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	oots (C3)	water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima itard (D3)	two requi
Type: Depth (in	GY drology Indicator (actors (minimum) (Mater (A1)) (Monri at Deposits (B2) (Monri at Deposits (B3) (Monri Cators (B6)) (Monr	verine) (Nonriverine) itial Imagery (B7 19) Yes Yes Yes Yes	red; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1) peres on I ped Iron (petion in Ti petion (C7) Remarks) priches): priches): priches):) Living R (C4) Illed Soil	oots (C3)	water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) s (B3) (Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Ima itard (D3)	two requi

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1006b
Investigator(s): Katie Pyne, Sara Frank, Jessica Taylor		Section,	Township, Ra	ange: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge	I	_ocal relief (c	oncave, conv	/ex, none): Flat	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.430008			Long:	119.291262	Datum:	WGS 1984
Soil Map Unit Name: Bakeoven-Morrow complex, 2 to 2	20 percent sl	opes		NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical fo	r this time of	year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology s	significantly o	disturbed? A	Are "Normal (Circumstances" present?	Yes X No)
Are Vegetation , Soil , or Hydrology r				plain any answers in Rei	<u> </u>	
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes No	. X	Is the	Sampled A	ırea		
	X		n a Wetland		No X	
Wetland Hydrology Present? Yes No	X					
Remarks:						
	. ,					
VEGETATION – Use scientific names of p		Damainant	lu dia atau	Г		
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1				Number of Dominant	Species That	
2.				Are OBL, FACW, or F	AC:	0 (A)
3.				Total Number of Domi Across All Strata:	•	2 (B)
4.		Total Cover				2 (B)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)		Total Cover		Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B
1				, ,		``
2.				Prevalence Index wo	rksheet:	
3				Total % Cover of	: Multi	ply by:
4				· —		0
5		Total Cover				0
Herb Stratum (Plot size: 5 ft)		- Total Cover		-		40
1. Bromus tectorum	40	Yes	UPL	UPL species 8		00
2. Pseudoroegneria spicata	40	Yes	UPL	Column Totals: 9	0 (A) 4	40 (B)
3. Achillea millefolium	10	No	FACU	Prevalence Index	= B/A = <u>4.89</u>	
4						
5 6.				Hydrophytic Vegetati Dominance Test i		
7.				Prevalence Index		
8.					aptations ¹ (Provide s	supporting
	90 =	Total Cover		data in Remark	s or on a separate s	sheet)
Woody Vine Stratum (Plot size: 5 ft)				Problematic Hydro	ophytic Vegetation ¹	(Explain)
1.				¹ Indicators of hydric so		
2		Total Cover		be present, unless dis	turbed or problemat	IC.
		- i utai Cuver		Hydrophytic		
% Bare Ground in Herb Stratum % C	over of Bioti	c Crust		Vegetation Present? Yes	NoX	_
Remarks:				<u>'</u>		_
Upland Plot						

SOIL Sampling Point: SP-1006b

Profile Desc Depth	cription: (Describe Matrix	to the depth		ı ment tl ‹ Featur		ator or	confirm the ab	sence of indicat	ors.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 3/3	100	(Loamy/Cla		Silt Loam	
<u> </u>	.011.0/0	.50						,-,	Oilt Edaill	
¹Type: C=Co	oncentration, D=Dep	etion, RM=F	Reduced Matrix, C	S=Cove	ered or C	oated S	and Grains.	² Location: PL=	Pore Lining, M=	Matrix.
Hydric Soil	Indicators: (Applica	ble to all LF	RRs, unless othe	rwise n	oted.)		In	dicators for Pro		
Histosol	(A1)		Sandy Red	ox (S5)				1 cm Muck (A9) (LRR C)	
Histic Ep	pipedon (A2)		Stripped M	atrix (S6	3)			2 cm Muck (A1	0) (LRR B)	
Black Hi	stic (A3)		Loamy Mu	cky Mine	eral (F1)			Iron-Manganes	se Masses (F12)	(LRR D)
Hydroge	n Sulfide (A4)		Loamy Gle	yed Mat	trix (F2)			Reduced Verti	c (F18)	
Stratified	l Layers (A5) (LRR C	;)	Depleted M	1atrix (F	3)			Red Parent Ma	aterial (F21)	
1 cm Mu	ıck (A9) (LRR D)		Redox Dar	k Surfac	e (F6)			Very Shallow [Oark Surface (F2	2)
Depleted	d Below Dark Surface	e (A11)	Depleted D	ark Sur	face (F7)		Other (Explain	in Remarks)	
Thick Da	ark Surface (A12)		Redox Dep	ression	s (F8)					
Sandy M	lucky Mineral (S1)									
Sandy G	sleyed Matrix (S4)	³ Indicators	s of hydrophytic ve	egetatio	n and we	etland h	ydrology must b	e present, unless	s disturbed or pro	oblematic.
Restrictive I	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil F	Present?	Yes	No X
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
	cators (minimum of o	ne is require					<u>S</u> e	econdary Indicato	•	two required)
	Water (A1)		Salt Crust	. ,			_	Water Marks (, .	
	iter Table (A2)		Biotic Crus		(D.10)			_	osits (B2) (River	ine)
Saturatio	` '		Aquatic Inv		` '	,			(B3) (Riverine)	
	arks (B1) (Nonriveri	•	Hydrogen S			•	—	_ Drainage Patte		
	nt Deposits (B2) (Nor posits (B3) (Nonriver		Oxidized R Presence of			-	.0018 (C3)	Crayfish Burro	ater Table (C2)	
	Soil Cracks (B6)	ille)	Recent Iron				ls (C6)	_	ws (Co) ble on Aerial Ima	agery (C9)
	on Visible on Aerial I	magery (B7)				ilica ooi		Shallow Aquita		igery (OO)
	tained Leaves (B9)		Other (Exp)		FAC-Neutral T		
Field Observ					,			_		
Surface Wat	er Present? Ye	S	No X	Depth (i	nches):					
Water Table	Present? Ye	s	No X	Depth (i	nches):					
Saturation Pr	resent? Ye	s	No X	Depth (i	nches):		Wetland H	ydrology Preser	nt? Yes	No X
(includes cap	oillary fringe)									
Describe Re	corded Data (stream	gauge, mon	itoring well, aerial	photos	, previou	s insped	ctions), if availal	ole:		
Remarks:										

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East	(City/County: Morrov	v	Sampling Date:	03/29/2023
Applicant/Owner: NextEra			State: OR	Sampling Point:	SP-1007a
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank	S	ection, Township, R	Range: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge	Local	relief (concave, con	ivex, none): Concave	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.430673		Long:	-119.290279	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent sle	opes		NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical for	this time of year	? Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology sig	gnificantly disturb	ed? Are "Normal	Circumstances" present?	Yes X No	
Are Vegetation , Soil X , or Hydrology na			explain any answers in Rer	<u> </u>	
SUMMARY OF FINDINGS – Attach site map			ocations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the Sampled	Area		
Hydric Soil Present? Yes X No		within a Wetland	d? Yes	No X	
Wetland Hydrology Present? Yes X No					
Remarks:					
Vernal pool.					
VECETATION . Her acjontific names of pla	nto				
VEGETATION – Use scientific names of pla		ninant Indicator	1		
Tree Stratum (Plot size: 30 ft)		cies? Status	Dominance Test wor	ksheet:	
1. 2.			Number of Dominant S Are OBL, FACW, or F	•	0 (A)
3.			Total Number of Domi		. ,
4.			Across All Strata:	•	1 (B)
Sapling/Shrub Stratum (Plot size: 15 ft)	=Tota	Cover	Percent of Dominant S Are OBL, FACW, or Fa	•	0% (A/B
1.					
2			Prevalence Index wo		
3.			Total % Cover of		oly by:
4			OBL species 0 FACW species 1		0
5		Cover	FACW species 1 FAC species 0		<u>2</u> 0
Herb Stratum (Plot size: 5 ft)			FACU species 0		0
Taeniatherum caput-medusae	20 Y	es UPL	UPL species 20	0 x 5 = 1	00
2. Navarretia intertexta	1 1	No FACW	Column Totals: 2	1 (A) 1	02 (B)
3			Prevalence Index :	= B/A = <u>4.86</u>	
4			Lludro physic Vo gototi	an Indiantoro	
5			Hydrophytic Vegetati Dominance Test is		
7.			Prevalence Index		
8.			l —	aptations¹ (Provide s	supporting
	21 =Total	Cover	data in Remark	s or on a separate s	heet)
Woody Vine Stratum (Plot size: 5 ft)			Problematic Hydro	ophytic Vegetation ¹ ((Explain)
1. 2.			¹ Indicators of hydric so be present, unless dis		
	=Tota	Cover	Hydrophytic		
% Bare Ground in Herb Stratum 80 % Co	ver of Biotic Crus	st	Vegetation Present? Yes	No X	
Remarks:			1		
Problematic vegetation - early seson visit					

SOIL Sampling Point: SP-1007a

I)enth	Matrix			x Featur			onfirm the abser			
Depth (inches)	Color (moist)	%		x Featur	es Type ¹	Loc ²	Texture		Remarks	
(inches)			Color (moist)	70	Туре					
0-3	10YR 2/2	100					Loamy/Clayey	<u>/</u>	Clay Loam	
										
				· 						
¹ Type: C=C	oncentration, D=De	epletion, RM=l	Reduced Matrix, (CS=Cove	ered or C	oated S	and Grains. ²	Location: PL=P	ore Lining, M=N	1atrix.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless oth	erwise n	oted.)		Indic	ators for Probl	ematic Hydric	Soils³:
Histosol	(A1)		Sandy Re	dox (S5)			1	cm Muck (A9)	(LRR C)	
Histic E	pipedon (A2)		Stripped N	∕latrix (S	6)		2	2 cm Muck (A10) (LRR B)	
Black H	istic (A3)		Loamy Mu	ucky Min	eral (F1)		lı	ron-Manganese	Masses (F12) (LRR D)
Hydroge	en Sulfide (A4)		Loamy Gl	eyed Ma	trix (F2)		F	Reduced Vertic ((F18)	
Stratifie	d Layers (A5) (LRR	(C)	Depleted	Matrix (F	3)		F	Red Parent Mate	erial (F21)	
1 cm Mu	ıck (A9) (LRR D)		Redox Da	rk Surfa	ce (F6)		\	/ery Shallow Da	rk Surface (F22)
Deplete	d Below Dark Surfa	ice (A11)	Depleted	Dark Sur	face (F7)			Other (Explain in	Remarks)	
Thick Da	ark Surface (A12)		Redox De	pression	s (F8)					
Sandy N	Mucky Mineral (S1)									
Sandy C	Gleyed Matrix (S4)	³ Indicator	s of hydrophytic	vegetatio	n and we	tland hy	drology must be p	resent, unless o	disturbed or prob	olematic.
Restrictive	Layer (if observed	l):								
_										
Type:	Roc	:k								
Depth (i		3	vater				Hydric Soil Pre	sent?	Yes X	No
Depth (i	nches):	3	vater				Hydric Soil Pre	sent?	Yes X	No
Depth (i Remarks: Problematic	nches): soils - Shallow clay	3	vater				Hydric Soil Pre	sent?	Yes X	No
Depth (i Remarks: Problematic HYDROLO Wetland Hy	nches): soils - Shallow clay	3 / soils retain v					-			
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi	nches): soils - Shallow clay OGY drology Indicators cators (minimum of	3 / soils retain v	ed; check all that				Seco	ndary Indicators	s (minimum of tv	
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1)	3 / soils retain v	ed; check all that Salt Crust	(B11)			<u>Seco</u> V	ndary Indicators Vater Marks (B1	s (minimum of tw	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2)	3 / soils retain v	ed; check all that Salt Crust Biotic Cru	(B11) st (B12)			<u>Seco</u> V S	<u>indary Indicators</u> Water Marks (B1 Sediment Depos	s (minimum of tw I) (Riverine) sits (B2) (Riverin	vo require
Depth (i Remarks: Problematic HYDROLC Wetland Hy Primary Indi Surface High Wa Saturati	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)	3 / soils retain v s: f one is require	ed; check all thatSalt CrustBiotic CruAquatic Ir	: (B11) st (B12) vertebra			Seco V S	<u>indary Indicators</u> Vater Marks (B1 Sediment Depos Drift Deposits (B	s (minimum of two) (Riverine) its (B2) (Riverine)	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive	3 / soils retain v s: f one is require	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen	t (B11) st (B12) overtebra Sulfide (Odor (C1)	Seco 	ndary Indicators Vater Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel	or (A1) ater Table (A2) on (A3) darks (B1) (Nonrivent	3 / soils retain v s: f one is require erine) onriverine)	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I	t (B11) st (B12) overtebra Sulfide (Rhizosph	Odor (C1 neres on I) ₋iving R	Seco V S C _	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimee Drift De	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (Norrive controls (Nonrive controls (B3) (Nonrive	3 / soils retain v s: f one is require erine) onriverine)	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I	st (B11) st (B12) evertebra Sulfide (Rhizosph of Redu	Odor (C1 neres on I ced Iron () ₋iving R C4)	Seco V S E	ndary Indicators Vater Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del X Surface	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (Noosits (B3) (Nonriv Soil Cracks (B6)	3 / soils retain v s: f one is require erine) onriverine)	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce	Odor (C1 neres on I ced Iron (ction in Ti) ₋iving R C4)	Seco V S C C C C C C C C C C C C C C C C C	endary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible	s (minimum of two) (Riverine) (Sits (B2) (Riverine) (Riverine) (Sits (B10) (Sits (B2) (C2) (C3) (C3) (C3) (C4)	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimel Drift Dep X Surface Inundati	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (N cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria	3 / soils retain v s: f one is require erine) onriverine) erine)	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Iro	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1 neres on I ced Iron (ction in Ti e (C7)) ₋iving R C4)	Seco	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del X Surface Inundati Water-S	pogy drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (N cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9)	3 / soils retain v s: f one is require erine) onriverine) erine)	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1 neres on I ced Iron (ction in Ti e (C7)) ₋iving R C4)	Seco	endary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimen Drift Depty X Surface Inundati Water-S Field Obser	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (Nosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations:	3 / soils retain v s: f one is require erine) onriverine) erine) I Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Iro Thin Mucl	(B11) st (B12) avertebra Sulfide (Rhizosph of Redu on Redu c Surface plain in F	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks)) ₋iving R C4)	Seco	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimer Drift De X Surface Inundati Water-S Field Obser Surface Wat	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (Nosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations:	3 / soils retain v s: f one is require erine) onriverine) retine) I Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduct on Reduct c Surface plain in F	Odor (C1 neres on I ced Iron (ction in Tie (C7) Remarks)) ₋iving R C4)	Seco	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible	s (minimum of two points) (Riverine) (Riveri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimel Drift Dep X Surface Inundati Water-S Field Obser Surface Wat Water Table	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) (Nonrive nt Deposits (B2) (N cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations: er Present?	3 / soils retain v s: f one is require onriverine) erine) I Imagery (B7) Yes Yes	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduct on Reduct c Surface plain in F Depth (i Depth (i	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks)) ₋iving R C4)	Seco	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Shallow Aquitaro FAC-Neutral Tes	s (minimum of two) (Riverine) (Ri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimel Drift Del X Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (N cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria drained Leaves (B9) vations: ter Present? Present?	3 / soils retain v s: f one is require erine) onriverine) retine) I Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Thin Mucl Other (Ex	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduct on Reduct c Surface plain in F	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks)) ₋iving R C4)	Seco	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible	s (minimum of two) (Riverine) (Ri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimel Drift Del X Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (Nosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations: are Present? Present? present?	3 / soils retain v s: f one is require erine) onriverine) erine) I Imagery (B7) Yes Yes	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks) inches): inches):) Living R C4) Illed Soil	Seco V S S S S S S S S S S S S S S S S S S	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Tes	s (minimum of two) (Riverine) (Ri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimel Drift Del X Surface Inundati Water-S Field Obser Surface Water Table Saturation P (includes ca	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (N cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria drained Leaves (B9) vations: ter Present? Present?	3 / soils retain v s: f one is require erine) onriverine) erine) I Imagery (B7) Yes Yes	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks) inches): inches):) Living R C4) Illed Soil	Seco V S S S S S S S S S S S S S S S S S S	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Tes	s (minimum of two) (Riverine) (Ri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del X Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (Nosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations: are Present? Present? present?	3 / soils retain v s: f one is require erine) onriverine) erine) I Imagery (B7) Yes Yes	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks) inches): inches):) Living R C4) Illed Soil	Seco V S S S S S S S S S S S S S S S S S S	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Tes	s (minimum of two) (Riverine) (Ri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimel Drift Del X Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (Nosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations: are Present? Present? present?	3 / soils retain v s: f one is require erine) onriverine) erine) I Imagery (B7) Yes Yes	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks) inches): inches):) Living R C4) Illed Soil	Seco V S S S S S S S S S S S S S S S S S S	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Tes	s (minimum of two) (Riverine) (Ri	vo require
Depth (i Remarks: Problematic HYDROLO Wetland Hy Primary Indi Surface High Water M Sedimen Drift Del X Surface Inundati Water-S Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	soils - Shallow clay OGY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (Nosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria stained Leaves (B9) vations: are Present? Present? present?	3 / soils retain v s: f one is require erine) onriverine) erine) I Imagery (B7) Yes Yes	ed; check all that Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc Other (Ex No X No X No X	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduce on Reduce of Surface plain in F Depth (i Depth (i	Odor (C1 neres on I ced Iron (ction in Ti e (C7) Remarks) inches): inches):) Living R C4) Illed Soil	Seco V S S S S S S S S S S S S S S S S S S	ndary Indicators Water Marks (B1 Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Tes	s (minimum of two) (Riverine) (Ri	vo require

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow	ı	Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1007b
Investigator(s): Katie Pyne, Sara Frank, Jessica Taylo	or	Section,	Гownship, R	ange: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge		Local relief (c	oncave, con	vex, none): Flat	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.430633			Long: -	119.290361	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percen	t slopes			NWI classifi	ication: N/A	
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	Are "Normal (Circumstances" present?	Yes X No)
Are Vegetation, Soil, or Hydrology	naturally prol	olematic? (If needed, ex	xplain any answers in Rer	narks.)	
SUMMARY OF FINDINGS – Attach site m	ap showin	ıg samplin	g point lo	ocations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes	No X	Is the	Sampled A	Area		
	No X	withi	n a Wetland	l? Yes	No X	
Wetland Hydrology Present? Yes	No <u>X</u>					
Remarks:						
VEGETATION – Use scientific names of						
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1.				Number of Dominant S	Species That	
2				Are OBL, FACW, or F	AC:	0 (A)
3.				Total Number of Domi	•	0 (D)
4.		=Total Cover		Across All Strata:		2 (B)
Sapling/Shrub Stratum (Plot size: 15 ft)	- Total Gover		Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B)
1.				, ,		` ′
2.				Prevalence Index wo	rksheet:	
3				Total % Cover of		ply by:
4				OBL species 0		0
5		=Total Cover		FACW species 0 FAC species 0		0
Herb Stratum (Plot size: 5 ft)				FACU species 10		40
Achillea millefolium	10	No	FACU	UPL species 8	5 x 5 = 4	25
2. Ericameria nauseosa	5	No	UPL	Column Totals: 9	5 (A) 4	(B)
3. Pseudoroegneria spicata	40	Yes	UPL	Prevalence Index :	= B/A = <u>4.89</u>	
4. Bromus tectorum 5.	40	Yes	UPL	Hydrophytic Vegetati	ion Indicators:	
6	-			Dominance Test is		
7.				Prevalence Index		
8.				Morphological Ada	aptations ¹ (Provide s	supporting
	95	=Total Cover			s or on a separate s	,
Woody Vine Stratum (Plot size: 5 ft	_)			Problematic Hydro	ophytic Vegetation ¹	(Explain)
1				¹ Indicators of hydric so be present, unless dis		
		=Total Cover		Hydrophytic		-
				Vegetation		
% Bare Ground in Herb Stratum 5 %	Cover of Bioti	c Crust	<u> </u>	Present? Yes	No X	<u>-</u>
Remarks:						
Upland plot.						

SOIL Sampling Point: SP-1007b

Profile Desc Depth	cription: (Describe t Matrix	o the depth		ıment tl x Featur		ator or	confirm the absence of	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/3	100	,				Loamy/Clayey	Silt Loam	l
	oncentration, D=Depl					oated S		ation: PL=Pore Lining, M	
-	Indicators: (Application (A4)	ole to all LR			-			s for Problematic Hydri	ic Soils":
Histosol	` '		Sandy Red					Muck (A9) (LRR C)	
	pipedon (A2)		Stripped M	•	•			Muck (A10) (LRR B) Manganese Masses (F12) /I DD D\
Black Hi	n Sulfide (A4)		Loamy Mu					wanganese wasses (F12 ced Vertic (F18)	(LKK D)
	l Layers (A5) (LRR C	١	Depleted N	-				Parent Material (F21)	
	ick (A9) (LRR D)	,	Redox Dar	,	,			Shallow Dark Surface (F.	22)
	d Below Dark Surface	(A11)	Depleted [)		r (Explain in Remarks)	
	ark Surface (A12)	()	Redox De			,	<u> </u>	(
	lucky Mineral (S1)		 '		(- /				
	sleyed Matrix (S4)	³ Indicators	of hydrophytic v	egetatio	n and we	etland hy	drology must be prese	ent, unless disturbed or p	roblematic.
Restrictive I	_ayer (if observed):								
Type:	,								
Depth (ir	nches):		_				Hydric Soil Present	? Yes	No X
HYDROLO	GY								
Wetland Hy	drology Indicators:								
	cators (minimum of or	ne is require						y Indicators (minimum of	f two required)
	Water (A1)		Salt Crust					r Marks (B1) (Riverine)	
	iter Table (A2)		Biotic Crus		(5.40)			ment Deposits (B2) (Rive	•
Saturation	,	\	Aquatic In		` '			Deposits (B3) (Riverine)	
	larks (B1) (Nonriveri nt Deposits (B2) (Non		Hydrogen Oxidized F					age Patterns (B10) Season Water Table (C2)	
	posits (B3) (Nonriver i	•	Presence			_	· · · · —	ish Burrows (C8)	
	Soil Cracks (B6)	,	Recent Iro			` '		ration Visible on Aerial Im	nagery (C9)
	on Visible on Aerial Ir	nagery (B7)	Thin Muck				` ' —	ow Aquitard (D3)	
	tained Leaves (B9)	0 , (,	Other (Exp)		Neutral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present? Yes	3	No X	Depth (i	nches):				
Water Table	Present? Yes	s		Depth (i	nches):				
Saturation P	resent? Yes	s	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes	No X
(includes cap									
Describe Re	corded Data (stream	gauge, moni	toring well, aeria	l photos	, previou	s insped	ctions), if available:		
Remarks:									
ı									

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East	C	city/County: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra			State: OR	Sampling Point:	SP-1008a
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank	Se	ection, Township, Ra	ange: 1S 28E 036		
Landform (hillside, terrace, etc.): Ridge	Local	relief (concave, conv	vex, none): Concave	Slop	oe (%): 0
Subregion (LRR): LRR B Lat: 45.432763		Long: -1	119.287504	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent s	lopes		NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical for		? Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrologysi	-)
Are Vegetation , Soil X , or Hydrology na			plain any answers in Rei	·	
SUMMARY OF FINDINGS – Attach site ma		,		,	ures, etc.
	X	Is the Sampled A within a Wetland		No	
Remarks: Vernal pool.					
VEGETATION – Use scientific names of pl					
<u>Tree Stratum</u> (Plot size: 30 ft)		ninant Indicator cies? Status	Dominance Test wor	ksheet:	
1			Number of Dominant S Are OBL, FACW, or F		0 (A)
3. 4.			Total Number of Domi Across All Strata:		1 (B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1.	=Total	Cover	Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B
1			Prevalence Index wo	rksheet:	
3.			Total % Cover of	Multi	iply by:
4			OBL species (x 1 =	0
5			· —		10
Hark Charture (Diet sine) 5.5	=Total	Cover	· —	x 3 =	0
Herb Stratum (Plot size: 5 ft) 1. Taeniatherum caput-medusae	50 Y	es UPL			<u>0</u> 250
Navarretia intertexta		No FACW			260 (B)
3.			Prevalence Index	`` /	` ' /
4.					
5.			Hydrophytic Vegetat	ion Indicators:	
6			Dominance Test i		
7			Prevalence Index		
8				aptations ¹ (Provide : s or on a separate :	
Woody Vine Stratum (Plot size: 5 ft)	<u>55</u> =Total	Cover		ophytic Vegetation ¹	,
			¹ Indicators of hydric se		,
1. 2.			be present, unless dis		
	=Total	Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 50 % Co	over of Biotic Crus	st		No _X	<u> </u>
Remarks:					
Moss present as 50% ground cover. Problematic veget	ation - early sesoi	n visit			

SOIL Sampling Point: SP-1008a

	-	to the depth				tor or o	confirm the absence of	of indicators.)
Depth (inches)	Matrix			ox Featur	- 1	Loc ²	Taratrago	Demonto
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks
0-3	10YR 2/2	100		. —			Loamy/Clayey	Clay Loam
	-							
	oncentration, D=De					oated S		ation: PL=Pore Lining, M=Matrix.
-	Indicators: (Applic	able to all LR						rs for Problematic Hydric Soils ³ :
Histosol			Sandy Red					Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
	istic (A3)		Loamy Mu	-				Manganese Masses (F12) (LRR D)
	en Sulfide (A4)		Loamy Gle	•	` '			uced Vertic (F18)
	d Layers (A5) (LRR	C)	Depleted I		-			Parent Material (F21)
	uck (A9) (LRR D)		Redox Da		` '			Shallow Dark Surface (F22)
	d Below Dark Surfac	ce (A11)	Depleted [Į.	Othe	r (Explain in Remarks)
	ark Surface (A12)		Redox De	pression	ıs (F8)			
	Mucky Mineral (S1)	_						
Sandy G	Gleyed Matrix (S4)	³ Indicators	of hydrophytic v	/egetatio	n and we	tland hy	ydrology must be prese	ent, unless disturbed or problematic.
Restrictive I	Layer (if observed)):	<u> </u>		· 			
Type:	Rock	K	_					
Depth (ir	nches):	3	<u></u>				Hydric Soil Present	t? Yes X No
HYDROLO)GY							
Wetland Hyd	drology Indicators	ş:						
Primary India	cators (minimum of	one is required	d; check all that	apply)			Secondar	ry Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	. (B11)			Wate	er Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crus	st (B12)			Sedir	ment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebra	tes (B13)		Drift	Deposits (B3) (Riverine)
Water M	farks (B1) (Nonrive	rine)	Hydrogen	Sulfide (Odor (C1))	Drain	nage Patterns (B10)
Sedimer	nt Deposits (B2) (No	onriverine)	Oxidized F	Rhizosph	ieres on l	₋iving R	loots (C3) Dry-S	Season Water Table (C2)
Drift Dep	posits (B3) (Nonrive	erine)	Presence	of Redu	ced Iron ((C4)	<u> </u>	fish Burrows (C8)
X Surface	Soil Cracks (B6)		Recent Iro	n Reduc	tion in Ti	lled Soi	ils (C6) Satur	ration Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (B7)	Thin Muck	∢Surface	∍ (C7)			low Aquitard (D3)
Water-S	stained Leaves (B9)		Other (Exp	plain in F	≀emarks)		FAC-	-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present? Y	/es	No X	Depth (i	nches):		.	
Water Table	Present? Y	/es	No X	Depth (i	nches):		.	
Saturation Pr		es	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes X No
(includes car								
Describe Red	corded Data (strear	n gauge, moni	toring well, aeria	ıl photos	, previous	inspec	ctions), if available:	
Remarks:								
Nemaino.								

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1008b
Investigator(s): Katie Pyne, Sara Frank, Jessica Taylor		Section,	Township, Ra	ange: 1S 28E 036		
Landform (hillside, terrace, etc.): Ridge	L	_ocal relief (c	oncave, conv	vex, none): Flat	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.432716			Long: -	119.287614	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent s	slopes			NWI classifi	ication: N/A	
Are climatic / hydrologic conditions on the site typical for	r this time of	year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology s	ignificantly d	listurbed? A	Are "Normal (Circumstances" present?	Yes X No)
Are Vegetation , Soil , or Hydrology n	aturally prob	olematic? (If needed, ex	plain any answers in Rer	narks.)	
SUMMARY OF FINDINGS – Attach site ma	p showin	g samplin	g point lo	cations, transects,	important feat	ures, etc.
, . , · · · · <u>—</u>	Χ	Is the	e Sampled A	rea		
<u> </u>	<u>X</u>	withi	n a Wetland	? Yes	No X	
	<u>X</u>					
Remarks:						
VEGETATION – Use scientific names of pl	ants					
	Absolute	Dominant	Indicator			
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1 2.				Number of Dominant S Are OBL, FACW, or F	•	0 (A)
3.				Total Number of Domi	nant Species	
4				Across All Strata:		1 (B)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)	=	=Total Cover		Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B
1				, , ,		
2.				Prevalence Index wo	rksheet:	
3				Total % Cover of	Multi	ply by:
4				OBL species 0		0
5		Total Cover		FACW species 0 FAC species 0		0
Herb Stratum (Plot size: 5 ft)		- Total Cover		FACU species 5		20
1. Poa bulbosa	5	No	FACU	UPL species 90		50
2. Ericameria nauseosa	5	No	UPL	Column Totals: 99	5 (A) 4	70 (B)
3. Pseudoroegneria spicata	80	Yes	UPL	Prevalence Index :	= B/A = 4.95	
4. Bromus tectorum	5	No	UPL			
5				Hydrophytic Vegetati		
6.				Dominance Test is		
7				Prevalence Index	เร ≤3.0 aptations¹ (Provide :	supporting
8	95 =	Total Cover			s or on a separate s	
Woody Vine Stratum (Plot size: 5 ft)		Total Gover			ophytic Vegetation ¹	,
1.				¹ Indicators of hydric so		,
2.				be present, unless dis		
	=	Total Cover		Hydrophytic		
9/ Para Cround in black Stratum 5	over of Dieti	o Crust		Vegetation	Na V	
	over of Biotic	c Crust		Present? Yes	No_X	_
Remarks: Upland plot.						
- Cp.s piot.						

SOIL Sampling Point: SP-1007b

Profile Desc Depth	cription: (Describe t Matrix	o the depth		ıment tl x Featur		ator or	confirm the absence of	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/3	100	,				Loamy/Clayey	Silt Loam	l
	oncentration, D=Depl					oated S		ation: PL=Pore Lining, M	
-	Indicators: (Application (A4)	ole to all LR			-			s for Problematic Hydri	ic Soils":
Histosol	` '		Sandy Red					Muck (A9) (LRR C)	
	pipedon (A2)		Stripped M	•	•			Muck (A10) (LRR B) Manganese Masses (F12) /I DD D\
Black Hi	n Sulfide (A4)		Loamy Mu					wanganese wasses (F12 ced Vertic (F18)	(LKK D)
	l Layers (A5) (LRR C	١	Depleted N	-				Parent Material (F21)	
	ick (A9) (LRR D)	,	Redox Dar	,	,			Shallow Dark Surface (F.	22)
	d Below Dark Surface	(A11)	Depleted [)		r (Explain in Remarks)	
	ark Surface (A12)	()	Redox De			,	<u> </u>	(
	lucky Mineral (S1)		 '		(- /				
	sleyed Matrix (S4)	³ Indicators	of hydrophytic v	egetatio	n and we	etland hy	drology must be prese	ent, unless disturbed or p	roblematic.
Restrictive I	_ayer (if observed):								
Type:	,								
Depth (ir	nches):		_				Hydric Soil Present	? Yes	No X
HYDROLO	GY								
Wetland Hy	drology Indicators:								
	cators (minimum of or	ne is require						y Indicators (minimum of	f two required)
	Water (A1)		Salt Crust					r Marks (B1) (Riverine)	
	iter Table (A2)		Biotic Crus		(5.40)			ment Deposits (B2) (Rive	•
Saturation	,	\	Aquatic In		` '			Deposits (B3) (Riverine)	
	larks (B1) (Nonriveri nt Deposits (B2) (Non		Hydrogen Oxidized F					age Patterns (B10) Season Water Table (C2)	
	posits (B3) (Nonriver i	•	Presence			_	· · · · —	ish Burrows (C8)	
	Soil Cracks (B6)	,	Recent Iro			` '		ration Visible on Aerial Im	nagery (C9)
	on Visible on Aerial Ir	nagery (B7)	Thin Muck				` ' —	ow Aquitard (D3)	
	tained Leaves (B9)	0 , (,	Other (Exp)		Neutral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present? Yes	3	No X	Depth (i	nches):				
Water Table	Present? Yes	s		Depth (i	nches):				
Saturation P	resent? Yes	s	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes	No X
(includes cap									
Describe Re	corded Data (stream	gauge, moni	toring well, aeria	l photos	, previou	s insped	ctions), if available:		
Remarks:									
ı									

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow	1	Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1010a
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank		Section, 7	Γownship, R	ange: <u>1S 28E 035</u>		
Landform (hillside, terrace, etc.): Ridge	[_ocal relief (co	oncave, con	vex, none): Concave	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.43036			Long: -	119.290283	Datum:	WGS 1984
Soil Map Unit Name: Morrow Silt Loam, 1 to 7 percent	slopes			NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical for	or this time of	year?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly d	listurbed? A	re "Normal (Circumstances" present?	Yes X No	
Are Vegetation , Soil X , or Hydrology	naturally prob	olematic? (I	f needed, ex	xplain any answers in Ren	narks.)	
SUMMARY OF FINDINGS – Attach site ma	ap showin	g samplin	g point lo	cations, transects,	important feat	ures, etc.
	oX		Sampled A			
Hydric Soil Present? Yes X N Wetland Hydrology Present? Yes X N	° <u>—</u>	withii	n a Wetland	!? Yes X	No	
Remarks:	<u> </u>					
Vernal pool.						
VEGETATION – Use scientific names of p	lants.					
	Absolute	Dominant	Indicator	l		
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test worl		
1. 2.				Number of Dominant S Are OBL, FACW, or FA	•	0 (A)
3. 4.				Total Number of Domii Across All Strata:	•	1 (B)
		Total Cover		Percent of Dominant S		`` ′
Sapling/Shrub Stratum (Plot size: 15 ft)			Are OBL, FACW, or FA	•	0% (A/B)
1						
2.				Prevalence Index wo		
3				Total % Cover of: OBL species 0		ply by: 0
5.				FACW species 1		2
·		Total Cover		FAC species 0		0
Herb Stratum (Plot size: 5 ft)				FACU species 40	x 4 = 1	60
1. Poa secunda	40	Yes	FACU	UPL species 0	x 5 =	0
2. Navarretia intertexta	1	No	FACW	Column Totals: 41	1 (A) 1	62 (B)
3. Agrostis spp.	5	No		Prevalence Index =	= B/A = <u>3.95</u>	
4						
5				Hydrophytic Vegetati		
6				Dominance Test is		
7.				Prevalence Index		
8	40	Total Cause		l —	aptations ¹ (Provide s s or on a separate s	
Woody Vino Stratum (Diot size: 5 ft	46 =	Total Cover			phytic Vegetation ¹	,
Woody Vine Stratum (Plot size: 5 ft 1.)			<u> </u>		` ' '
1 2.				¹ Indicators of hydric so be present, unless dist		
		Total Cover		·		
				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 50 % 0	Cover of Biotic	c Crust	<u> </u>	Present? Yes_	No _X	=
Remarks:						
Moss present as 50% ground cover. Problematic vego	etation - early	seson visit				

SOIL Sampling Point: SP-1010a

		to the depth				tor or o	confirm the absence	of indicators.)
Depth (inches)	Matrix			x Featur	-	Loc ²	Tarduro	De tra anka
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks
0-5	10YR 2/2	100			· 		Loamy/Clayey	Clay Loam
		- — –						
	-	- — —						
		. — –						
		- — –						
		- — —						
		- — —						
	oncentration, D=Dep					pated S		ation: PL=Pore Lining, M=Matrix.
-	Indicators: (Applica	able to all LR						rs for Problematic Hydric Soils ³ :
Histosol			Sandy Red					Muck (A9) (LRR C)
	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
	istic (A3)		Loamy Mu					Manganese Masses (F12) (LRR D)
	en Sulfide (A4)		Loamy Gle	•	` '			uced Vertic (F18)
	d Layers (A5) (LRR (3)	Depleted N		-			Parent Material (F21)
	uck (A9) (LRR D)	/A 4.4\	Redox Dar		` '			Shallow Dark Surface (F22)
	d Below Dark Surface	e (A11)	Depleted D				Otne	r (Explain in Remarks)
	ark Surface (A12)		Redox Dep	pression	s (F8)			
	Mucky Mineral (S1)	3 Indicators	-f budranhutia u	:>=>totic	- and we	tiond by	ralami muot ha proor	
	Gleyed Matrix (S4)		of flydropflytic v	egetatio	n and we	llanu ny	Agrology must be brese	ent, unless disturbed or problematic.
	Layer (if observed):							
Type:	Rock		_				Martinia Call Dresser	V No
Depth (ir	ncnes):	5					Hydric Soil Present	t? Yes X No
	soils - Shallow clay s							
HYDROLO	GY							
Wetland Hy	drology Indicators:							_
Primary India	cators (minimum of o	one is required	<u>d; check all that :</u>	apply)			<u>Seconda</u>	ry Indicators (minimum of two required)
X Surface	` ,		Salt Crust	, ,				er Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus					ment Deposits (B2) (Riverine)
Saturation	` '		Aquatic Inv					Deposits (B3) (Riverine)
	Marks (B1) (Nonriver	•	Hydrogen					nage Patterns (B10)
	nt Deposits (B2) (No		Oxidized R			-		Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence		,	,	<u> </u>	fish Burrows (C8)
	Soil Cracks (B6)	. (57)	Recent Iro			iled Soi	` '	ration Visible on Aerial Imagery (C9)
	on Visible on Aerial I	magery (B7)	Thin Muck					low Aquitard (D3)
	stained Leaves (B9)		Other (Exp	n ni nisk	(emarks)		FAC-	-Neutral Test (D5)
Field Obser						_		
Surface Wat		es X		Depth (i	· -	2		
Water Table		es		Depth (i	· -		a Hadaala	
Saturation P		es	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes X No
(includes cap		acusa moni	toring wall garig	-l photos	provious	inanac	rtions) if sysilable:	
Describe Ne	corded Data (stream	gauge, mom	Ofing Well, aelia	.I priotos	, previous	3 Inspec	XIONS), II avallable.	
Remarks:								

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow	,	Sampling Date:	03/29/2023
Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1010b
Investigator(s): Katie Pyne, Sara Frank, Jessica Taylor		Section,	Гownship, R	ange: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge		Local relief (c	oncave, con	vex, none): Flat	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.430405			Long: -	119.29023	Datum:	WGS 1984
Soil Map Unit Name: Morrow silt loam, 1 to 7 percent si	lopes			NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical fo	r this time of	f year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology s	significantly o	disturbed? A	Are "Normal (Circumstances" present?	Yes X No)
Are Vegetation , Soil , or Hydrology r				plain any answers in Rei		
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes No	. X	Is the	Sampled A	Area		
	X		n a Wetland		No X	
Wetland Hydrology Present? Yes No	X					
Remarks:						
	. ,					
VEGETATION – Use scientific names of p		Daminant	lu dia atau	T		
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1				Number of Dominant	Species That	
2.				Are OBL, FACW, or F	AC:	0 (A)
3.				Total Number of Domi Across All Strata:	•	2 (B)
4.		Total Cover				2 (B)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)		Total Gover		Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B
1				, ,		``
2.				Prevalence Index wo	rksheet:	
3				Total % Cover of	: Multi	ply by:
4				· —		0
5		=Total Cover				0
Herb Stratum (Plot size: 5 ft)		- Total Cover				0
1. Bromus tectorum	40	Yes	UPL	UPL species 11		550
2. Pseudoroegneria spicata	60	Yes	UPL	Column Totals: 11	10 (A) 5	550 (B)
3. Taeniatherum caput-medusae	10	No	UPL	Prevalence Index	= B/A = 5.00	
4						
5 6.				Hydrophytic Vegetati Dominance Test i		
				Prevalence Index		
8.				l —	aptations ¹ (Provide s	supporting
	110	=Total Cover		data in Remark	s or on a separate s	sheet)
Woody Vine Stratum (Plot size: 5 ft)				Problematic Hydro	ophytic Vegetation ¹	(Explain)
1.				¹ Indicators of hydric so		
2		=Total Cover		be present, unless dis	turbed or problemat	IC.
				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % C	over of Bioti	c Crust		Present? Yes	NoX	_
Remarks:						_
Upland Plot						

SOIL Sampling Point: SP-1010b

Profile Desc Depth	cription: (Describe t Matrix	o the depth		ıment tl x Featur		ator or	confirm the absence of	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/3	100	,				Loamy/Clayey	Silt Loam	
	oncentration, D=Depl					oated S		ation: PL=Pore Lining, M	
-	Indicators: (Application (A4)	ole to all LR			-			s for Problematic Hydri	ic Soils":
Histosol	` '		Sandy Red					Muck (A9) (LRR C)	
	pipedon (A2)		Stripped M	•	•			Muck (A10) (LRR B) Manganese Masses (F12) /I DD D\
Black Hi	n Sulfide (A4)		Loamy Mu					wanganese wasses (F12 ced Vertic (F18)	(LKK D)
	l Layers (A5) (LRR C	١	Depleted N	-				Parent Material (F21)	
	ick (A9) (LRR D)	,	Redox Dar	,	,			Shallow Dark Surface (F.	22)
	d Below Dark Surface	(A11)	Depleted [)		r (Explain in Remarks)	
	ark Surface (A12)	()	Redox De			,	<u> </u>	(
	lucky Mineral (S1)		 '		(- /				
	sleyed Matrix (S4)	³ Indicators	of hydrophytic v	egetatio	n and we	etland hy	drology must be prese	ent, unless disturbed or p	roblematic.
Restrictive I	_ayer (if observed):								
Type:	,								
Depth (ir	nches):		_				Hydric Soil Present	? Yes	No X
HYDROLO	GY								
Wetland Hy	drology Indicators:								
	cators (minimum of or	ne is require						y Indicators (minimum of	f two required)
	Water (A1)		Salt Crust					r Marks (B1) (Riverine)	
	iter Table (A2)		Biotic Crus		(5.40)			ment Deposits (B2) (Rive	•
Saturation	,	\	Aquatic In		` '			Deposits (B3) (Riverine)	
	larks (B1) (Nonriveri nt Deposits (B2) (Non		Hydrogen Oxidized F					age Patterns (B10) Season Water Table (C2)	
	posits (B3) (Nonriver i	•	Presence			_	· · · · —	ish Burrows (C8)	
	Soil Cracks (B6)	,	Recent Iro			` '		ration Visible on Aerial Im	nagery (C9)
	on Visible on Aerial Ir	nagery (B7)	Thin Muck				` ' —	ow Aquitard (D3)	
	tained Leaves (B9)	0 , (,	Other (Exp)		Neutral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present? Yes	3	No X	Depth (i	nches):				
Water Table	Present? Yes	s		Depth (i	nches):				
Saturation P	resent? Yes	s	No X	Depth (i	nches):		Wetland Hydrolog	gy Present? Yes	No X
(includes cap									
Describe Re	corded Data (stream	gauge, moni	toring well, aeria	l photos	, previou	s insped	ctions), if available:		
Remarks:									
ı									

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank Section, Township, Range: 1S 28E 035 Landform (hillside, terrace, etc.): Ridge Local relief (concave, convex, none): Concave Slope (%): 0	Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Landform (hillside, terrace, etc.); Ridge	Applicant/Owner: NextEra				State: OR	Sampling Point:	SP-1011a
Subtregion (LRR) LRR B	Investigator(s): Katie Pyne, Jessica Taylor, Sara Fran	k	Section, 7	Γownship, R	ange: 1S 28E 035		
Soli Map Unit Name: Balecoven-Morrow Complex, 2 to 20 percent slopes	Landform (hillside, terrace, etc.): Ridge	l	_ocal relief (co	oncave, conv	/ex, none): Concave	Slop	e (%): 0
Are Climatic / hydrologic conditions on the site typical for this time of year? Yes X No_ (If no. explain in Remarks.) Are Vegetation, Soli, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No Is the Sampled Area within a Wettland? Yes X No	Subregion (LRR): <u>LRR B</u> Lat: <u>45.429973</u>			Long: -	119.291305	Datum:	WGS 1984
Are Vegetation	Soil Map Unit Name: Bakeoven-Morrow Complex, 2 to	o 20 percent s	lopes		NWI classifi	cation: N/A	
Are Vegetation Soil or Hydrologynaturally problematic? (iff needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are climatic / hydrologic conditions on the site typical	for this time of	year?	Yes X	No (If no, exp	lain in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are Vegetation, Soil, or Hydrology	significantly o	listurbed? A	re "Normal (Circumstances" present?	Yes X No	
Hydrophylic Vegetation Present?	Are Vegetation, SoilX_, or Hydrology	_naturally prob	olematic? (I	f needed, ex	xplain any answers in Ren	narks.)	
Wetland Pydrology Present? Yes X No	SUMMARY OF FINDINGS – Attach site m	nap showin	g samplin	g point lo	cations, transects,	important feat	ures, etc.
Wetland Hydrology Present? Yes X No Remarks: Vernal Pool VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) % Cover Species? Status Species? Status Are OBL, FACW, or FAC: 0 (A) 1.	Voc V			_		No	
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute % Cover Species? Status Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) O (A) 3.	·						
Absolute Command Indicator Species Status Sta			1				
Tree Stratum	VEGETATION – Use scientific names of		Dominant	Indicator	T		
2.	<u>Tree Stratum</u> (Plot size: 30 ft)				Dominance Test worl	ksheet:	
Across All Strata: 2 (B)						•	0 (A)
Sapling/Shrub Stratum Plot size: 15 ft 1	3. 4.					•	2 (B)
2.			Total Cover			•	0% (A/B)
4.					Prevalence Index wo	rksheet:	
FACW species 2	3				Total % Cover of:	Multi	ply by:
Herb Stratum (Plot size: 5 ft)					-		
Herb Stratum (Plot size: 5 ft) 1. Navarretia intertexta 2 No FACW 2. Taeniatherum caput-medusae 5 Yes UPL 3. Poa secunda 5 Yes FACU 4. FACU Prevalence Index = B/A = 4.08 5. Hydrophytic Vegetation Indicators: 6. Dominance Test is >50% 7. Prevalence Index is ≤3.0¹ 8. Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1. Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Wegetation Present? Yes No X	5		Total Cover				
1. Navarretia intertexta 2 No FACW UPL species 5 x 5 = 25 2. Taeniatherum caput-medusae 5 Yes UPL Column Totals: 12 (A) 49 (B) 3. Poa secunda 5 Yes FACU Prevalence Index = B/A = 4.08 4. Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ 8. — Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1. — Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Wegetation Present? Yes No X	Herb Stratum (Plot size: 5 ft)		Total Gover				
3. Poa secunda 4. Standard Stratum St	• • • • • • • • • • • • • • • • • • • •	2	No	FACW		x 5 =	25
4.	2. Taeniatherum caput-medusae	5	Yes	UPL	Column Totals: 12	2 (A)	49 (B)
Hydrophytic Vegetation Indicators: Dominance Test is >50%		5	Yes	FACU	Prevalence Index =	= B/A = <u>4.08</u>	
6					Lludrophytic Venetati	on Indicators	
7	6						
8	_						
Woody Vine Stratum (Plot size: 5 ft) 1	-						supporting
1		12	Total Cover		· -		
2=Total Cover Hydrophytic Vegetation Present? Yes No X Remarks:	Woody Vine Stratum (Plot size: 5 ft	_)			Problematic Hydro	phytic Vegetation ¹	(Explain)
% Bare Ground in Herb Stratum 90 % Cover of Biotic Crust Present? Yes No X Remarks:							
% Bare Ground in Herb Stratum 90 % Cover of Biotic Crust Present? Yes No X Remarks:		=	Total Cover		Hydrophytic		
	% Bare Ground in Herb Stratum 90 %	Cover of Biotic	c Crust	_	Vegetation	No_X	_

SOIL Sampling Point: SP-1011a

Depth	Matrix	(x Featur			onfirm the absence	,	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 2/2	100	(,				Loamy/Clayey	Clay Loam	
	101112/2						Loanly, Glayby	Olay Loam	
	-							-	
								-	
1							2.		
			Reduced Matrix, C			pated Sa		cation: PL=Pore Lining, M=Mat	•
-	`	cable to all L	RRs, unless other		oted.)			ors for Problematic Hydric So	ils":
Histosol			Sandy Re					n Muck (A9) (LRR C)	
	pipedon (A2)		Stripped N					n Muck (A10) (LRR B)	
Black His			Loamy Mu	-				-Manganese Masses (F12) (LR	RRD)
	n Sulfide (A4)		Loamy Gle	-				uced Vertic (F18)	
	l Layers (A5) (LRF	₹ C)	Depleted I	,	,			Parent Material (F21)	
	ck (A9) (LRR D)		Redox Da		` '			/ Shallow Dark Surface (F22)	
	l Below Dark Surfa	асе (A11)	Depleted I				Oth	er (Explain in Remarks)	
	ark Surface (A12)		Redox De	pression	s (F8)				
	lucky Mineral (S1)								
Sandy G	leyed Matrix (S4)	Indicato	rs of hydrophytic v	/egetatio	n and we	tland hy	drology must be pres	ent, unless disturbed or proble	matic.
Restrictive L	_ayer (if observed	d):							
		•							
Type:	Roo		<u>—</u>						
Depth (ir		3 3	vater				Hydric Soil Preser	nt? Yes	No
Depth (ir	nches):	3 3	vater				Hydric Soil Preser	nt? Yes	No
Depth (ir Remarks: Problematic	nches): soils - shallow clay	3 3	vater				Hydric Soil Preser	nt? Yes	No
Depth (in Permanus) Problematic	nches): soils - shallow clay	ck 3 y soils retain w	vater				Hydric Soil Preser	nt? Yes	No
Depth (in Perpendicular Problematicular Proble	soils - shallow clay	ck 3 y soils retain w	vater	apply)				nt? Yes	
Depth (in Remarks: Problematic states) IYDROLO Wetland Hyd	soils - shallow clay GY drology Indicator cators (minimum o	ck 3 y soils retain w					Seconda		
Depth (in Remarks: Problematic : Problematic : Problematic : Problematic : Primary Indic X Surface : Primary Indic X Surfa	soils - shallow clay GY drology Indicator cators (minimum o	ck 3 y soils retain w	red; check all that	(B11)			Seconda Wat	ary Indicators (minimum of two	require
Depth (in Remarks: Problematic states) IYDROLO Wetland Hyder Primary Indic X Surface	soils - shallow clay GY drology Indicator cators (minimum o Water (A1) tter Table (A2)	ck 3 y soils retain w	ed; check all that Salt Crust	st (B11)	tes (B13)		<u>Seconda</u> Wat Sed	ary Indicators (minimum of two er Marks (B1) (Riverine)	require
Depth (in Remarks: Problematic : Problematic	soils - shallow clay GY drology Indicator cators (minimum o Water (A1) tter Table (A2)	y soils retain w	red; check all that Salt Crust Biotic Crus	: (B11) st (B12) vertebrat			Seconda Wat Sed Drift	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)	require
Depth (in Remarks: Problematic : Problematic	GY drology Indicator eators (minimum o Water (A1) ter Table (A2) on (A3)	y soils retain w	red; check all that Salt Crust Biotic Crus Aquatic In	t (B11) st (B12) overtebrat Sulfide (Odor (C1)		Seconda Wat Sed Driff Draf	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)	require
Depth (in Remarks: Problematic : Problematic	GY drology Indicator eators (minimum of Water (A1) eter Table (A2) on (A3) arks (B1) (Nonriversionals)	y soils retain w ss: of one is requirerine) Honriverine)	red; check all that Salt Crust Biotic Crus Aquatic In Hydrogen	t (B11) st (B12) overtebrat Sulfide (Rhizosph	Odor (C1) eres on L	iving R	Seconda Wat Sed Drift Drai oots (C3) Dry-	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)	require
Depth (ir Remarks: Problematic : IYDROLO Wetland Hyd Primary Indic X Surface High Wa Saturatic Water M Sedimen Drift Dep	soils - shallow clay drology Indicator cators (minimum o Water (A1) tter Table (A2) on (A3) arks (B1) (Nonrive tt Deposits (B2) (N	y soils retain w ss: of one is requirerine) Honriverine)	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	t (B11) st (B12) overtebrate Sulfide (Rhizosph of Reduc	Odor (C1) eres on L ced Iron (iving R C4)	Seconda Wat Sed Drai Drai Dry- Cray	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)	require
Depth (ir Remarks: Problematic : Problematic : Primary Indic X Surface High Wa Saturatic Water M Sedimen Drift Dep X Surface	GY drology Indicator cators (minimum o Water (A1) tter Table (A2) on (A3) arks (B1) (Nonriv nt Deposits (B2) (Nonriv posits (B3) (Nonriv	y soils retain w s: of one is requirerine) lonriverine) verine)	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	t (B11) st (B12) overtebrate Sulfide (Rhizosph of Reduction on Reduction	Odor (C1) eres on L ced Iron (ction in Til	iving R C4)	Seconda Wat Sed Drift Drai Oots (C3) Dry- Crai s (C6) Satu	ery Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) yfish Burrows (C8)	require
Depth (ir Remarks: Problematic : Problematic : Problematic : Problematic : Problematic : Problematic : Vetland Hyd Primary Indic X Surface : High Wa Saturatic Water M Sedimen Drift Dep X Surface : Inundation	orches): soils - shallow clay drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriv nt Deposits (B2) (Nosits (B3) (Nonriv Soil Cracks (B6)	y soils retain w ss: of one is requir erine) verine) al Imagery (B7	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	t (B11) st (B12) evertebrat Sulfide (Rhizosph of Reduc on Reduc c Surface	Odor (C1) eres on L ced Iron (ction in Til e (C7)	iving R C4)	Seconda	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imager	require
Depth (in Remarks: Problematic : Problematic	soils - shallow clay GY drology Indicator cators (minimum o Water (A1) tter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Noriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9)	y soils retain w s: fone is requir erine) verine) al Imagery (B7	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	t (B11) st (B12) evertebrat Sulfide (Rhizosph of Reduc on Reduc c Surface	Odor (C1) eres on L ced Iron (ction in Til e (C7)	iving R C4)	Seconda	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imager Illow Aquitard (D3)	require
Depth (in Remarks: Problematic : Problematic	GY drology Indicator cators (minimum o Water (A1) tter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Noriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations:	y soils retain w s: fone is requir erine) verine) al Imagery (B7	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	t (B11) st (B12) evertebrat Sulfide (Rhizosph of Reduc on Reduc c Surface	Odor (C1) eres on L ced Iron (ction in Til c (C7) Remarks)	iving R C4)	Seconda	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imager Illow Aquitard (D3)	require
Depth (ir Remarks: Problematic : Problematic : IYDROLO Wetland Hyd Primary Indic X Surface High Wa Saturatic Water M Sedimen Drift Dep X Surface Inundatic Water-Si Field Observ Surface Water	proches): soils - shallow clay drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriv to Deposits (B2) (Noriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present?	y soils retain w serine) erine) lonriverine) verine) al Imagery (B7	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	t (B11) st (B12) evertebrat Sulfide (Rhizosph of Reduc on Reduc c Surface plain in R	Odor (C1) eres on L ced Iron (ction in Til e (C7) Remarks)	iving R C4)	Seconda	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imager Illow Aquitard (D3)	require
Depth (ir Remarks: Problematic : IYDROLO Wetland Hyd Primary Indic X Surface High Wa Saturatic Water M Sedimen Drift Dep X Surface Inundation	drology Indicator (minimum of water (A1) (Nonriver Table (A2) on (A3) (Nonriver Deposits (B3) (Nonriver Table on Aeria (B4) (Nonriver Table (B4) (Nonriver Table (B5) (Nonriver Table (B6) (Nonriver T	y soils retain w s: erine) Honriverine) verine) al Imagery (B7	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	i (B11) st (B12) evertebrate Sulfide (Rhizosph of Reduct on Reduct c Surface plain in R	Odor (C1) eres on L ced Iron (ction in Til e (C7) Remarks) nches):	iving R C4)	Seconda	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imager llow Aquitard (D3) c-Neutral Test (D5)	require
Depth (in Remarks: Problematic states of the Problematic states of the Primary Indication of the	drology Indicator cators (minimum of Water (A1) arks (B1) (Nonrivent Deposits (B2) (Norrivent Deposits (B3) (Nonrivent Deposits (B4) (Norrivent Deposits (B5) (Norrivent Deposits (B6) on Visible on Aeria tained Leaves (B9) arks	y soils retain w s: erine) lonriverine) yerine) al Imagery (B7 yes Yes X Yes	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B11) st (B12) evertebrate Sulfide (Rhizosph of Reduce on Reduce s Surface plain in R Depth (iii	Odor (C1) eres on L ced Iron (ction in Til e (C7) Remarks) nches):	iving R C4)	Seconda Wat Sed Drift Drai Oots (C3) Dry- Crai Satu Sha	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imager llow Aquitard (D3) c-Neutral Test (D5)	require y (C9)
Depth (in Remarks: Problematic : Problematic	soils - shallow clay GY drology Indicator eators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive to Deposits (B2) (Norive to Deposits (B3) (Norive soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? present? coillary fringe)	y soils retain w s: erine) Honriverine) verine) al Imagery (B7)) Yes Yes Yes	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	t (B11) st (B12) avertebrat Sulfide (Rhizosph of Reduc on Reduc o Surface plain in R Depth (ii Depth (iii	Odor (C1) eres on L ced Iron (ction in Til e (C7) Remarks) nches): nches):	Living R C4) led Soil	Seconda Wat Sed Drift Drai Oots (C3) Dry- Crai Satu Sha	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imager llow Aquitard (D3) c-Neutral Test (D5)	require y (C9)
Depth (in Remarks: Problematic : Problematic	soils - shallow clay GY drology Indicator eators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive to Deposits (B2) (Norive to Deposits (B3) (Norive soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? present? coillary fringe)	y soils retain w s: erine) Honriverine) verine) al Imagery (B7)) Yes Yes Yes	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	t (B11) st (B12) avertebrat Sulfide (Rhizosph of Reduc on Reduc o Surface plain in R Depth (ii Depth (iii	Odor (C1) eres on L ced Iron (ction in Til e (C7) Remarks) nches): nches):	Living R C4) led Soil	Seconds	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imager llow Aquitard (D3) c-Neutral Test (D5)	require y (C9)
Depth (in Remarks: Problematic : Problematic	soils - shallow clay GY drology Indicator eators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive to Deposits (B2) (Norive to Deposits (B3) (Norive soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? present? coillary fringe)	y soils retain w s: erine) Honriverine) verine) al Imagery (B7)) Yes Yes Yes	red; check all that Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	t (B11) st (B12) avertebrat Sulfide (Rhizosph of Reduc on Reduc o Surface plain in R Depth (ii Depth (iii	Odor (C1) eres on L ced Iron (ction in Til e (C7) Remarks) nches): nches):	Living R C4) led Soil	Seconds	ary Indicators (minimum of two er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imager llow Aquitard (D3) c-Neutral Test (D5)	require

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East		City/Cou	nty: Morrow		Sampling Date:	03/29/2023
Applicant/Owner: NextEra			-	State: OR	Sampling Point:	SP-1011b
Investigator(s): Katie Pyne, Sara Frank, Jessica Taylor		Section,	Γownship, Ra	ange: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge	Lo	cal relief (c	oncave, conv	vex, none): Flat	Slop	e (%): 0
Subregion (LRR): LRR B Lat: 45.429549			Long: -1	119.291597	 Datum:	WGS 1984
Soil Map Unit Name: Bakeoven-Morrow complex, 2 to 2	0 percent slop	oes		NWI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical for	r this time of y	/ear?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology s	ignificantly dis)
Are Vegetation , Soil , or Hydrology n				plain any answers in Rei		
SUMMARY OF FINDINGS – Attach site ma				-	•	ures, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the	Sampled A	rea		
	X		n a Wetland		No X	
Wetland Hydrology Present? Yes No	X					
Remarks:						
VEGETATION – Use scientific names of pl		D	la di a da a			
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
1.				Number of Dominant S	Species That	
2				Are OBL, FACW, or F	AC:	0 (A)
3.				Total Number of Domi	•	o (D)
4		Total Cover		Across All Strata:		2 (B)
<u>Sapling/Shrub Stratum</u> (Plot size: 15 ft)		I Otal Covel		Percent of Dominant S Are OBL, FACW, or F	•	.0% (A/B
1				7110 052, 171011, 011		(,,,,,
2.				Prevalence Index wo	rksheet:	
3.				Total % Cover of	: Multi	ply by:
4				OBL species 0		0
5		Fatal Cavan		FACW species 0		0
<u>Herb Stratum</u> (Plot size: 5 ft)	=	Total Cover				<u>0</u> 40
1. Bromus tectorum	40	Yes	UPL	UPL species 10		500
2. Pseudoroegneria spicata	60	Yes	UPL	Column Totals: 11		640 (B)
3. Achillea millefolium	10	No	FACU	Prevalence Index	= B/A = 4.91	
4						
5.				Hydrophytic Vegetat		
6 7.				Dominance Test i		
7. 8.					aptations ¹ (Provide s	supporting
	110 =7	Total Cover		. <u> </u>	s or on a separate s	
Woody Vine Stratum (Plot size: 5 ft)				Problematic Hydro	ophytic Vegetation ¹	(Explain)
1				¹ Indicators of hydric so		
2				be present, unless dis	turbed or problemat	ic.
	=	Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum % Co	over of Biotic	Crust		Vegetation Present? Yes	No X	
Remarks:						
Upland Plot						

SOIL Sampling Point: SP-1011b

Profile Desc Depth	ription: (Describe t Matrix	o the depth		ı ment tl k Featur		ator or o	confirm the absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-16	10YR 3/3	100	, ,				Loamy/Clayey	Silt Lo	nam
								-	
¹Type: C=Co	ncentration, D=Depl	etion, RM=F	Reduced Matrix, C	S=Cove	red or C	oated S	and Grains. ² Loc	ation: PL=Pore Lining	g, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all Li	RRs, unless othe	rwise n	oted.)		Indicato	rs for Problematic H	ydric Soils³:
Histosol	(A1)		Sandy Red	lox (S5)			1 cm	n Muck (A9) (LRR C)	
Histic Ep	ipedon (A2)		Stripped M	atrix (Se	3)		2 cm	n Muck (A10) (LRR B)	
Black His	stic (A3)		Loamy Mu	cky Min	eral (F1)		Iron-	-Manganese Masses (F12) (LRR D)
Hydroger	n Sulfide (A4)		Loamy Gle	yed Ma	trix (F2)		Red	uced Vertic (F18)	
Stratified	Layers (A5) (LRR C)	Depleted N	/latrix (F	3)		Red	Parent Material (F21)	
1 cm Mu	ck (A9) (LRR D)		Redox Dar	k Surfac	e (F6)		Very	Shallow Dark Surface	e (F22)
Depleted	Below Dark Surface	(A11)	Depleted D	ark Sur	face (F7))	Othe	er (Explain in Remarks	5)
Thick Da	rk Surface (A12)		Redox Dep	ression	s (F8)				
	ucky Mineral (S1)								
Sandy G	leyed Matrix (S4)	³ Indicator	s of hydrophytic ve	egetatio	n and we	tland hy	drology must be pres	ent, unless disturbed	or problematic.
Restrictive L	.ayer (if observed):								
Type:			_						
Depth (in	ches):		_				Hydric Soil Presen	it? Yes_	No X
HYDROLO									
_	Irology Indicators:								
	ators (minimum of o	ne is require						ary Indicators (minimu	
	Nater (A1) ter Table (A2)		Salt Crust Biotic Crus					er Marks (B1) (Riverir imant Danasits (B2) (
Saturatio	` '		Aquatic Inv		tos (B13)			iment Deposits (B2) (F Deposits (B3) (Riveri	*
	arks (B1) (Nonriveri	na)	Hydrogen S		` '			nage Patterns (B10)	iie)
	t Deposits (B2) (Non		Oxidized R					Season Water Table (C2)
	osits (B3) (Nonriver	•	Presence of			-		fish Burrows (C8)	.02)
	Soil Cracks (B6)	,	Recent Iro			` '		ration Visible on Aeria	al Imagery (C9)
	on Visible on Aerial Ir	nagery (B7)					. ,	llow Aquitard (D3)	3 7 (7)
	ained Leaves (B9)	3 , ,	Other (Exp					-Neutral Test (D5)	
Field Observ	vations:		<u> </u>						
Surface Water	er Present? Ye	S	No X	Depth (i	nches):				
Water Table	Present? Ye	s		Depth (i	nches):		1		
Saturation Pr	esent? Ye	s	No X	Depth (i	nches):		Wetland Hydrolo	gy Present? Yes_	No X
(includes cap	illary fringe)	_					<u> </u>		
Describe Rec	corded Data (stream	gauge, mor	itoring well, aerial	photos	, previous	s inspec	tions), if available:		
Remarks:									
İ									

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East	(City/County: Morrov	W	Sampling Date:	03/29/2023
Applicant/Owner: NextEra			State: OR	Sampling Point:	SP-1012a
Investigator(s): Katie Pyne, Jessica Taylor, Sara Frank	s	ection, Township, F	Range: 1S 28E 035		
Landform (hillside, terrace, etc.): Ridge	Local	relief (concave, cor	nvex, none): Concave	Slope	e (%): <u>0</u>
Subregion (LRR): LRR B Lat: 45.429391		Long:	-119.291802	Datum:	WGS 1984
Soil Map Unit Name: Bakeoven-Morrow Complex, 2 to 20) percent slopes		NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical for t	this time of year	? Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology sig	nificantly disturl	ped? Are "Normal	Circumstances" present?	Yes X No	
Are Vegetation , Soil X , or Hydrology na			explain any answers in Ren		
SUMMARY OF FINDINGS – Attach site map			ocations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No		Is the Sampled within a Wetland		No	
Wetland Hydrology Present? Yes X No					
Remarks: Vernal Pool					
VEGETATION – Use scientific names of pla					
		ninant Indicator ecies? Status	Dominance Test worl	ksheet:	
1			Number of Dominant S Are OBL, FACW, or FA	•	1 (A)
3.			Total Number of Domi	nant Species	3 (B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1.	=Tota	l Cover	Percent of Dominant S Are OBL, FACW, or FA	Species That	3% (A/B
2.			Prevalence Index wo	rksheet:	
3.			Total % Cover of:	Multip	oly by:
4.			OBL species 0	x 1 =)
5			FACW species 15		0
	=Tota	I Cover	FAC species 0		<u> </u>
Herb Stratum (Plot size: 5 ft)	-	NI- FACIAL	FACU species 0		0
Navarretia intertexta Taeniatherum caput-medusae		No FACW Yes UPL	UPL species 20 Column Totals: 35		00 30 (B)
Taeniatherum caput-medusae Allium tolmiei		res UPL	Prevalence Index =	``	30 (B)
4. Deschampsia spp.		res FACW	1 Tovalence mack	0.71	
5.			Hydrophytic Vegetati	on Indicators:	
6.			Dominance Test is		
7.			Prevalence Index	is ≤3.0 ¹	
8.			1 <u> </u>	aptations¹ (Provide s	
_	35 =Tota	l Cover		s or on a separate s	,
Woody Vine Stratum (Plot size: 5 ft)			Problematic Hydro	phytic Vegetation ¹ (Explain)
1. 2.			¹ Indicators of hydric so be present, unless dist		
9/ Para Craund in Harb Strature 70		I Cover	Hydrophytic Vegetation	No. V	
	ver of Biotic Cru	sı	Present? Yes_	No_X	
Remarks: Problematic vegetation - early season visit					

SOIL Sampling Point: SP-1012a

Depth	Matri	x	Redo	x Featur	es		onfirm the al			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Textur	·e	Remarks	
0-3	10YR 2/2	100	()		<u> </u>		Loamy/Cl		Clay Loam	
	101112/2			·			Loamyron		Oldy Louin	
				· ——						
				·						
T 0 0			Dades at Matrice	20. 0		0		21	D. D I in its M	NA - 4-d-
		•	Reduced Matrix, (pated S			PL=Pore Lining, M=	
-		licable to all L	RRs, unless oth				"		Problematic Hydric	: Solls :
Histosol			Sandy Re				_		(A9) (LRR C)	
	oipedon (A2)		Stripped N		•		_		(A10) (LRR B) nese Masses (F12)	(I DD D)
Black His			Loamy Mu	-			_		,	(LKK D)
	n Sulfide (A4)	D (C)	Loamy Gl				_	Reduced Ve	, ,	
	Layers (A5) (LR	RC)	Depleted	,	•		_		Material (F21)	0)
	ck (A9) (LRR D)	5 (A44)	Redox Da		` '		_		w Dark Surface (F2	2)
	Below Dark Sur	` '	Depleted				_	Other (Expla	ain in Remarks)	
	rk Surface (A12)		Redox De	pression	s (F8)					
	lucky Mineral (S1					نط امصما		h =	ess disturbed or pro	
	leyed Matrix (S4)		rs of flydropflytic v	vegetatio	n and we	uand ny	drology must	be present, unit	ess disturbed or pro	bbiematic
Restrictive L	ayer (if observe	ed):								
Type: Depth (ir		ock 3	<u> </u>				Hydric Soil	Present?	Yes	No
Type: _ Depth (ir Remarks:		ock 3	water				Hydric Soil	Present?	Yes	No
Type: _ Depth (ir Remarks:	nches):	ock 3	vater				Hydric Soil	Present?	Yes	No
Type: _ Depth (ir Remarks: Problematic :	nches): soils - shallow cla	ock 3	vater				Hydric Soil	Present?	Yes	No
Type:	nches): soils - shallow cla	3 ay soils retain w	water				Hydric Soil	Present?	Yes	_ No
Type:	soils - shallow cla GY drology Indicato	3 ay soils retain w	vater	apply)					Yes	<u>-</u>
Type:	soils - shallow cla GY drology Indicato	3 ay soils retain w						Secondary Indic		
Type:	GY drology Indicato	3 ay soils retain w	ed; check all that	(B11)				Secondary Indic Water Mark	ators (minimum of	two requi
Type:	GY drology Indicato eators (minimum of Water (A1) ter Table (A2)	3 ay soils retain w	ed; check all that	(B11) st (B12)	tes (B13)			Secondary Indic Water Mark Sediment D	ators (minimum of s (B1) (Riverine)	two requi
Type: Depth (in Remarks: Problematic : Problematic : TYDROLO Wetland Hyd Primary India Surface : High Wa Saturatio	GY drology Indicato eators (minimum of Water (A1) ter Table (A2)	ay soils retain w	ed; check all that Salt Crust Biotic Cru	: (B11) st (B12) vertebra				Secondary Indic Water Marke Sediment December 1	ators (minimum of s (B1) (Riverine) eposits (B2) (River	two requi
Type: Depth (in Remarks: Problematic: YDROLO Vetland Hyd Primary Indic Surface High Wa Saturatic Water M	GY drology Indicato eators (minimum of Water (A1) ter Table (A2) on (A3)	ay soils retain w	ed; check all that Salt Crust Biotic Cru Aquatic In	t (B11) st (B12) overtebra Sulfide (Odor (C1))		Secondary Indic Water Mark: Sediment D. Drift Deposi	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine)	two requi
Type: Depth (in Remarks: Problematic : Problematic : Problematic : Typrology Wetland Hyde Primary Indice Surface : High Wa Saturation Water M Sedimen	GY drology Indicato eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriv	ay soils retain w rs: of one is require verine) Nonriverine)	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen	t (B11) st (B12) overtebra Sulfide (Rhizosph	Odor (C1) eres on l) ₋iving R		Secondary Indic Water Mark: Sediment D. Drift Deposi	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2)	two requi
Type:	GY drology Indicato eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (I	ay soils retain w rs: of one is require verine) Nonriverine)	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduc	Odor (C1) eres on l ced Iron () ₋iving R [C4)		Secondary Indic Water Mark Sediment Deposition Drift Deposition Drainage Pate Dry-Season Crayfish Bur	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2)	two requir
Type:	GY drology Indicato cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriv to Deposits (B2) (Nonriv	ay soils retain was soils required to soil was soils retain was soils reta	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	st (B11) st (B12) evertebra Sulfide (Rhizosph of Reduction Reduction	Odor (C1) eres on leced Iron (etion in Ti) ₋iving R [C4)		Secondary Indic Water Mark Sediment Deposition Drift Deposition Drainage Pate Dry-Season Crayfish Bur	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Ima	two requi
Type: Depth (in Remarks: Problematic : YDROLO Yetland Hyd Surface : High Wa Saturatio Water M Sedimen Drift Dep X Surface : Inundation	GY drology Indicato eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivat Deposits (B2) (Nonrivat Deposits (B3) (Nonrivat Cracks (B6)	ay soils retain w rs: of one is requir verine) Nonriverine) verine) al Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil		Secondary Indic Water Marks Sediment Deposit Drainage Pa Dry-Season Crayfish But Saturation V	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Ima	two requi
Type: Depth (in Remarks: Problematic : Probl	GY drology Indicato eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivat Deposits (B2) (Nonrivat Deposits (B3) (Nonrivat Deposits	ay soils retain w rs: of one is requir verine) Nonriverine) verine) al Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized It Presence Recent Irc	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) leres on Loded Iron (ction in Ti) _iving R C4) lled Soil		Secondary Indic Water Mark: Sediment D. Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Ima	two requi
Type: Depth (in Remarks: Problematic : Probl	GY drology Indicato cators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) (Nonriv to Deposits (B2) (I oosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aerit tained Leaves (B1 vations:	ay soils retain w rs: of one is requir verine) Nonriverine) verine) al Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized It Presence Recent Irc	t (B11) st (B12) evertebra Sulfide (Rhizosph of Reduce C Surface	Odor (C1) eres on Leced Iron (etion in Ties (C7) Remarks)) _iving R C4) lled Soil		Secondary Indic Water Mark: Sediment D. Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Ima	two requir
Type: Depth (in Remarks: Problematic : Probl	GY drology Indicato eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivati Deposits (B3) (Nonrivati Deposits (B3) (Nonrivati Deposits (B6) on Visible on Aeritained Leaves (Bayations:	yerine) Nonriverine) verine) al Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck	(B11) st (B12) avertebra Sulfide (Rhizosph of Reduc on Reduc c Surface plain in F	Odor (C1) eres on L ced Iron (ction in Ti e (C7) Remarks)) _iving R C4) lled Soil		Secondary Indic Water Mark: Sediment D. Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V	ators (minimum of s (B1) (Riverine) eposits (B2) (River ts (B3) (Riverine) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Ima	two requir
Type: Depth (in Remarks: Problematic : Problematic : Problematic : Problematic : IYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep X Surface : Inundatic Water-Si Field Observ Surface Water	GY drology Indicato eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivat Deposits (B3) (Nonrivat Deposits	yerine) Nonriverine) verine) al Imagery (B7	ed; check all that Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized If Presence Recent Irc Thin Muck Other (Ex	st (B11) st (B12) avertebra Sulfide (Rhizosph of Reduc on Reduc c Surface plain in F	Odor (C1) peres on Led Iron (ction in Tie (C7) Remarks) nches):) _iving R C4) lled Soil	oots (C3)s (C6)	Secondary Indic Water Mark: Sediment D. Drift Deposit Drainage Pa Dry-Season Crayfish But Saturation V	ators (minimum of s (B1) (Riverine) eposits (B2) (Riverine) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imalitard (D3) I Test (D5)	two requi
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See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East	C	ity/County: Morrow	,	Sampling Date: 03/29/2023
Applicant/Owner: NextEra			State: OR	Sampling Point: SP-1012b
Investigator(s): Katie Pyne, Sara Frank, Jessica Taylor	Se	ection, Township, Ra	ange: 1S 28E 035	
Landform (hillside, terrace, etc.): Ridge	Local ı	relief (concave, conv	vex, none): Flat	Slope (%): 0
Subregion (LRR): LRR B Lat: 45.429423		Long: <u>-</u>	119.291748	Datum: WGS 1984
Soil Map Unit Name: Bakeoven-Morrow complex, 2 to 20	percent slopes		NWI classific	cation: N/A
Are climatic / hydrologic conditions on the site typical for	this time of year?	Yes X	No (If no, explain	ain in Remarks.)
Are Vegetation, Soil, or Hydrologysig	gnificantly disturb	ed? Are "Normal (Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrologyna	turally problemat	ic? (If needed, ex	kplain any answers in Rem	narks.)
SUMMARY OF FINDINGS – Attach site map	showing sa	mpling point lo	cations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No_	Х	Is the Sampled A		
Hydric Soil Present? Yes No		within a Wetland		No X
Wetland Hydrology Present? Yes No	X			
Remarks:				
VECETATION . Her exigntific names of pla	nto			
VEGETATION – Use scientific names of pla		ninant Indicator	1	
Tree Stratum (Plot size: 30 ft)		cies? Status	Dominance Test work	sheet:
1. 2.			Number of Dominant S Are OBL, FACW, or FA	•
3.			Total Number of Domin	
4.			Across All Strata:	(B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1.	=Total	Cover	Percent of Dominant Sp Are OBL, FACW, or FA	•
2.			Prevalence Index wor	ksheet:
3.			Total % Cover of:	Multiply by:
4			OBL species 0	
5		Cavar	FACW species 10	
<u> </u>	=Total	Cover	FAC species 0 FACU species 10	
Bromus tectorum	30 Y	es UPL	UPL species 80	
2. Pseudoroegneria spicata	50 Y	es UPL	Column Totals: 100	(A) 460 (B)
3. Achillea millefolium	10 N	lo FACU	Prevalence Index =	B/A = 4.60
4. Deschampsia elongata	10 N	lo FACW		
5			Hydrophytic Vegetation	
6			Dominance Test is Prevalence Index is	
8. – – – – – – – – – – – – – – – – – – –				ptations ¹ (Provide supporting
	100 =Total	Cover		s or on a separate sheet)
Woody Vine Stratum (Plot size: 5 ft)			Problematic Hydro	phytic Vegetation ¹ (Explain)
1				il and wetland hydrology must
2	_T_4-1	Cover	be present, unless distu	urbed or problematic.
-	=Total	Cover	Hydrophytic	
% Bare Ground in Herb Stratum	ver of Biotic Crus	st	Vegetation Present? Yes_	No X
Remarks:				
Upland Plot				

SOIL Sampling Point: SP-1012b

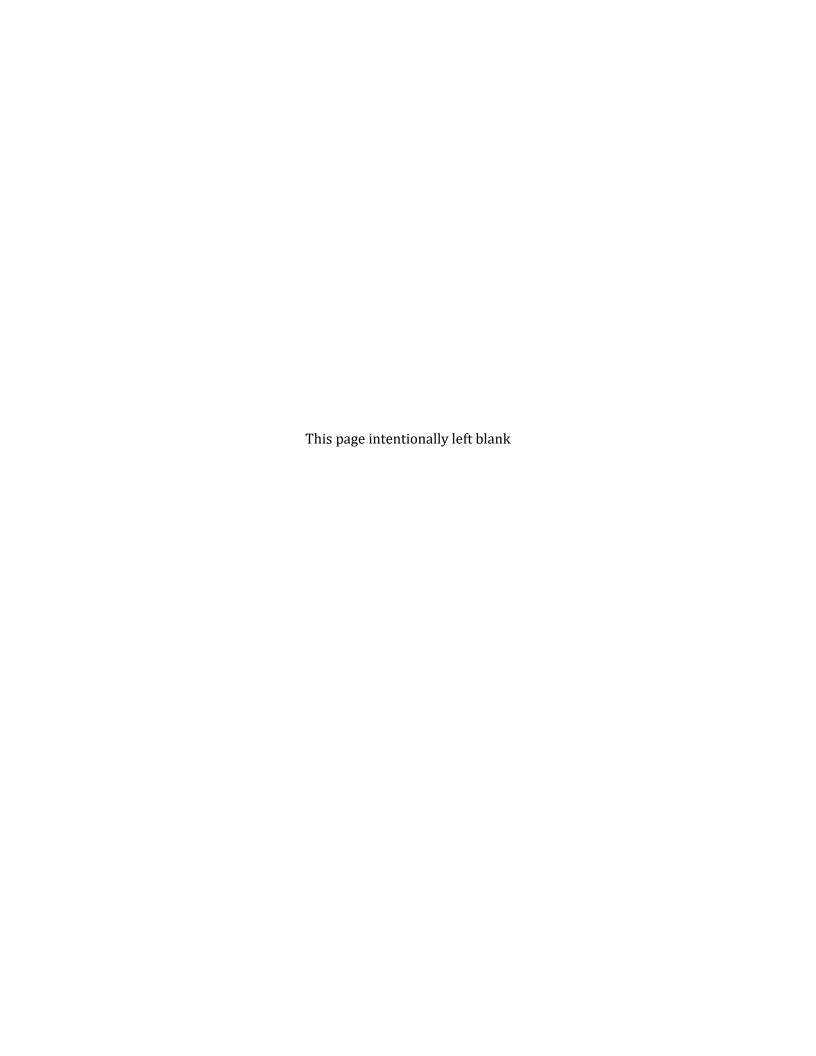
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. *Location: PL=Pore Lining, M=Matrix, Ptypric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils* Histosoil (A1) Histosoil (A2) Stripped Matrix (86) 1 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR B) Loamy Mucky Mineral (F1) Iron-Manganese Masses (F12) (LRR D) Hydrogen Suilide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Redox Dark Surface (A12) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F22) Redox Depleted Dark Surface (F6) Very Shallow Dark Surface (F6) Very Shallo	Depth Matrix		Redox Featu						
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. Tuocation: PL=Pore Lining, M=Matrix, Phydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histoic (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: 1 cm Musk (Ap) (LRR D) 2 cm Muck (Ap) (LRR D) Loamy Mucky Mineral (F1) Iron-Manganese Masses (F12) (LRR D) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Reduced Vertic	(inches) Color (moist)	% Color (m	oist) %	Type ¹	Loc ²	Texture		Remarks	
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Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Red Parent Material (F21) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed): Type: Depth (inches): Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Salt Crust (B11) Water Table (A2) Biotic Crust (B11) Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Dirit Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dirit Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soli Cracks (B8) Recent Iron Reduction in Tilled Solis (C8) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Table (A2) Saturation (Passes (B4)) Thin Muck Surface (C7) Water Table (A2) Sulface Soli Cracks (B8) Recent Iron Reduction in Tilled Solis (C8) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Table Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				,					
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Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X									
Type: Depth (inches): Hydric Soil Present? Yes No x No x		ndicators of hydro	phytic vegetatic	on and we	tland hy	drology must be	present, unless di	sturbed or prob	lematic.
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Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Depth (inches): Remarks: HYDROLOGY 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) (Nonriverine)	Sa Bic Aq Hy erine)Ox)Pre	It Crust (B11) otic Crust (B12) uatic Invertebra drogen Sulfide idized Rhizosphesence of Redu	otes (B13) Odor (C1 neres on laced Iron) Living Ro (C4)	oots (C3)	ondary Indicators Water Marks (B1) Sediment Deposit Drift Deposits (B3 Drainage Patterns Dry-Season Wate Crayfish Burrows	(minimum of two (Riverine) ts (B2) (Riverine) (Riverine) ts (B10) tr Table (C2) (C8)	o required
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one in Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Sa	It Crust (B11) otic Crust (B12) uatic Invertebra drogen Sulfide idized Rhizosph esence of Redu cent Iron Reduc in Muck Surface ner (Explain in F	ates (B13) Odor (C1 neres on leced Iron ection in Tie (C7) Remarks)	Living Ro (C4) Illed Soil	Sec.	ondary Indicators Water Marks (B1) Sediment Deposit Drift Deposits (B3) Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Shallow Aquitard	(minimum of two (Riverine) (s (B2) (Riverine) (Riverine) (s (B10) (C2) (C8) on Aerial Imag (D3)	o require
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Depth (inches): Remarks: HYDROLOGY 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present?	Sa Bic Aq Hy.	It Crust (B11) otic Crust (B12) uatic Invertebra drogen Sulfide (idized Rhizosphesence of Reducent Iron Reductin Muck Surfacener (Explain in F	ates (B13) Odor (C1 neres on laced Iron oction in Tie e (C7) Remarks) inches): inches):	Living Ro (C4) Illed Soil	Sec.	ondary Indicators Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Test	(minimum of two (Riverine) (Riverine) (Riverine) (Riverine) (Riverine) (CE) (CE) (CE) (CB) (CB) (D3) (D5)	o required
	Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Sa Bic Aq Hy.	It Crust (B11) otic Crust (B12) uatic Invertebra drogen Sulfide (idized Rhizosphesence of Reducent Iron Reductin Muck Surfacener (Explain in F	ates (B13) Odor (C1 neres on laced Iron oction in Tie e (C7) Remarks) inches): inches):	Living Ro (C4) Illed Soil	Sec.	ondary Indicators Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Test	(minimum of two (Riverine) (Riverine) (Riverine) (Riverine) (Riverine) (CE) (CE) (CE) (CB) (CB) (D3) (D5)	o require
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	Type: Depth (inches): Remarks: HYDROLOGY 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) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Sa Bic Aq Hy Pre P	It Crust (B11) otic Crust (B12) uatic Invertebra drogen Sulfide (idized Rhizosphesence of Redu cent Iron Reduc in Muck Surface ner (Explain in F	ates (B13) Odor (C1 neres on liced Iron oction in Tie (C7) Remarks) inches): inches):) Living Ro (C4) illed Soil	Second Se	ondary Indicators Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Test	(minimum of two (Riverine) (Riverine) (Riverine) (Riverine) (Riverine) (CE) (CE) (CE) (CB) (CB) (D3) (D5)	o require

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: Wheatridge East Wind		City/County: Morrow	v County	Sampling Date: <u>3/27/2023</u>
Applicant/Owner: NextEra			State: OR	Sampling Point:SP-NW-1000
Investigator(s): Katie Pyne, Sara Frank	s	ection, Township, Ra	ange: <u>1S 28 E 006</u>	
Landform (hillside, terrace, etc.): Bench	Loc	al relief (concave, co	onvex, none): None	Slope (%): 0
Subregion (LRR): LRR B Lat: 45.514837		Long:	119.380079	Datum: WGS 84
Soil Map Unit Name: 35 - Onyx silt loam			NWI classif	ication: PEM1C
Are climatic / hydrologic conditions on the site typical	for this time of year'	? Yes <u>x</u>	No (If no, exp	olain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturb	ed? Are "Normal	Circumstances" present?	Yes x No
Are Vegetation, Soil, or Hydrology	_naturally problema	tic? (If needed, ex	xplain any answers in Rer	narks.)
SUMMARY OF FINDINGS – Attach site n	nap showing sa	mpling point lo	cations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X	No	Is the Sampled A	Area	
Hydric Soil Present? Yes	No X	within a Wetland	1? Yes	No X
Wetland Hydrology Present? Yes	No <u>X</u>			
Remarks:				
VEGETATION – Use scientific names of	plants.			
	Absolute Don	ninant Indicator	T	
Tree Stratum (Plot size:)	% Cover Spe	cies? Status	Dominance Test wor	
1. 2.			Number of Dominant Are OBL, FACW, or F	
3.			Total Number of Dom	·
4		Cover	Across All Strata:	1(B)
Sapling/Shrub Stratum (Plot size:		Cover	Percent of Dominant S Are OBL, FACW, or F	•
1.	_'		, 652, 611, 61	(, 42)
2.			Prevalence Index wo	orksheet:
3			Total % Cover of	
4			· ·) x1= 0
5		Cover		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Herb Stratum (Plot size: 30)		00101		3 x 4 = 12
Phalaris arundinacea	100 Y	es FACW	UPL species 6	6 x 5 = 30
2. Centaurea stoebe		No UPL	Column Totals: 10	
3. Onopordum acanthium		No UPL	Prevalence Index	= B/A = <u>2.22</u>
Cynoglossum officinale 5.		No FACU	Hydrophytic Vegetat	ion Indicators
5. 6.			X Dominance Test i	
7.			Prevalence Index	
8.				aptations ¹ (Provide supporting
		Cover		s or on a separate sheet)
Woody Vine Stratum (Plot size:	_)			ophytic Vegetation ¹ (Explain)
1. 2.			•	oil and wetland hydrology must sturbed or problematic.
	=Total	Cover	Hydrophytic	
			Vegetation	
	Cover of Biotic Cru	st	Present? Yes	No
Remarks:				

SOIL Sampling Point: SP-999

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	% C	olor (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 2/2	100					Loamy/Clayey		Silt Loam	
1							2.	· 		
	entration, D=Depletion					oated Sa			Lining, M=Matrix	
	cators: (Applicable	to all LRR							atic Hydric Soils	*:
Histosol (A1)	,	-	Sandy Red Stripped M					n Muck (A9) (LRI n Muck (A10) (LR		
Histic Epiped Black Histic		-	Loamy Mu					n Muck (A10) (LF	sses (F12) (LRR	D)
Hydrogen St	` '	-	Loamy Gle					-Manganese Mas luced Vertic (F18		ט)
	yers (A5) (LRR C)	-	Depleted I					Parent Material	,	
1 cm Muck (-	Redox Da					y Shallow Dark S		
	low Dark Surface (A	.11)	Depleted [)		er (Explain in Rei		
	Surface (A12)	_	Redox De					(,,,,,,,,,,	
	y Mineral (S1)	=		•	()					
		Indicators of	f hydrophytic v	egetatio	n and we	tland hy	drology must be pres	ent, unless distu	ırbed or problema	itic.
Restrictive Laye	er (if observed):									
Type:	,									
Depth (inche	es):						Hydric Soil Prese	nt?	Yes No	X_
	worms present									
	worms present									
	·									
	•									
HYDROLOGY Wetland Hydrol	•	is required;	check all that	apply)					inimum of two rec	quired)
HYDROLOGY Wetland Hydrol Primary Indicator Surface Wat	ogy Indicators: rs (minimum of one er (A1)	is required;	Salt Crust	(B11)			Wa	ter Marks (B1) (R	liverine)	quired)
Wetland Hydrol Primary Indicator Surface Wat High Water	ogy Indicators: rs (minimum of one er (A1) Table (A2)	is required; - -	Salt Crust Biotic Crus	(B11) st (B12)			Wa	er Marks (B1) (R iment Deposits (l	Riverine) B2) (Riverine)	quired)
Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (A	ogy Indicators: rs (minimum of one ter (A1) Table (A2)	-	Salt Crust Biotic Crust Aquatic In	(B11) st (B12) vertebra	, ,		Wa Sec Drif	ter Marks (B1) (R iment Deposits (I Deposits (B3) (F	Riverine) B2) (Riverine) Riverine)	quired)
Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (A	ogy Indicators: rs (minimum of one ter (A1) Table (A2) A3) s (B1) (Nonriverine)	- - - -	Salt Crust Biotic Crust Aquatic In Hydrogen	(B11) st (B12) vertebra Sulfide (Odor (C1)	Wa Sec Drif Dra	ter Marks (B1) (R iment Deposits (I t Deposits (B3) (F inage Patterns (B	Riverine) B2) (Riverine) Riverine) 310)	quired)
Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De	ogy Indicators: rs (minimum of one ter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriv	rerine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebra Sulfide (Rhizosph	Odor (C1 eres on I) ₋iving Ro		ter Marks (B1) (R iment Deposits (I t Deposits (B3) (F inage Patterns (B Season Water T	Riverine) B2) (Riverine) Riverine) B10) Fable (C2)	quired)
Wetland Hydrol Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposit	ogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) s (B3) (Nonriverine	rerine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	(B11) st (B12) vertebra Sulfide (Rhizosph of Reduc	Odor (C1 eres on l ced Iron () _iving Ro [C4)	WaiSecDrifDracCrac	ter Marks (B1) (R iment Deposits (I Deposits (B3) (R inage Patterns (B Season Water T yfish Burrows (C8	Riverine) B2) (Riverine) Riverine) B10) Table (C2)	
Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Surface Soil	ogy Indicators: rs (minimum of one ter (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonrive s (B3) (Nonriverine Cracks (B6)	- verine) _ 	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	(B11) st (B12) vertebra Sulfide (Rhizosph of Reduc	Odor (C1 eres on led ced Iron (etion in Ti) _iving Ro [C4)		er Marks (B1) (R iment Deposits (I i Deposits (B3) (F inage Patterns (B Season Water T yfish Burrows (C8 uration Visible on	Riverine) B2) (Riverine) Riverine) B10) Bable (C2) B) A Aerial Imagery (
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WETLAND	DELINEATION	REPORT
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Appendix B. Wetlands and Other Waters Photolog

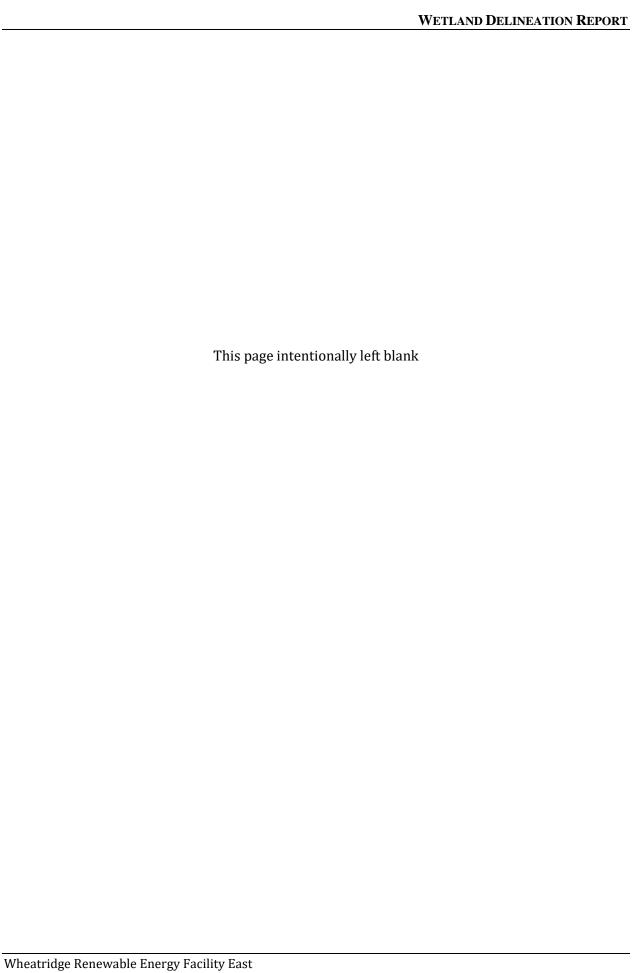




Photo 1. Overview of wetland conditions north of road crossing. Looking S. Taken: 7/21/2022.



Photo 3. Stream does not continue beyond this point. Looking SW. Taken: 7/22/2022.



Photo 2. Junk pile located to the SE of wetland shows up on orthoimagery as dark spot. Looking NW. Taken: 7/22/2022.



Photo 4. Overview of stream conditions. Looking NW. Taken: 7/22/2022.



Photo 5. Overview of stream conditions. Looking SW. Taken: 7/22/2022.



Photo 7. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 6. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 8. Overview of stream conditions. Looking SW. Taken: 7/22/2022.



Photo 9. Overview of stream conditions. Looking SW. Taken: 7/22/2022.



Photo 11. Overview of riverine wetland conditions. Looking N. Taken: 7/22/2022.



Photo 10. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 12. No bed or banks in this sandy soil. What appers to be a waterway in ortho is a cow trail. Looking W. Taken: 7/22/2022.



Photo 13. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 15. Overview of stream conditions. Looking W. Taken: 7/22/2022.



Photo 14. Overview of riverine wetland conditions. Looking N. Taken: 7/22/2022.



Photo 16. Overview of stream conditions. Looking W. Taken: 7/22/2022.



Photo 17. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking NE. Taken: 7/22/2022.



Photo 18. Overview of stream conditions. Looking W. Taken: 7/22/2022.



Photo 19. Riverine wetland transitions to ephemeral waterway at this point. Looking N. Taken: 7/22/2022.



Photo 20. Overview of stream conditions. Looking NE. Taken: 7/22/2022.





Photo 23. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 22. General conditions of the riverine wetland in this area. Looking S. Taken: 7/22/2022.



Photo 24. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 25. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 27. Overview of stream conditions. Looking SW. Taken: 7/22/2022.



Photo 26. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 28. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 29. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.





Photo 31. Overview of stream conditions. Looking S. Taken: 7/22/2022.



Photo 32. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 33. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 35. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking W. Taken: 7/22/2022.



Photo 34. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 36. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 37. Overview of stream conditions. Looking NW. Taken: 7/23/2022.



Photo 39. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 38. Stream loses bed and banks at cattle trail before ledge to wetland Looking SW. Taken: 7/22/2022.



Photo 40. Stream loses bed and banks at cattle trail before ledge to wetland Looking SW. Taken: 7/22/2022.



Photo 41. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 43. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 42. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 44. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 45. Overview of stream conditions. Looking NE. Taken: 7/22/2022.

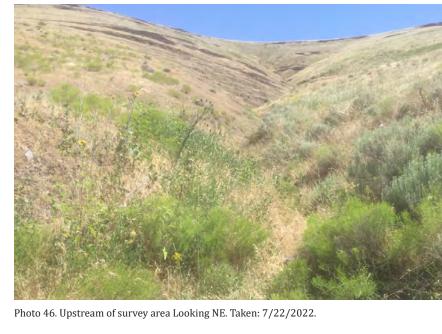




Photo 47. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 48. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking W. Taken: 7/22/2022.



Photo 49. Overview of stream conditions. Looking E. Taken: 7/22/2022.



Photo 51. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 50. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking W. Taken: 7/22/2022.



Photo 52. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking W. Taken: 7/22/2022.



Photo 53. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 55. Overview of stream conditions. Looking NE. Taken: 7/22/2022.



Photo 54. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking SW. Taken: 7/22/2022.



Photo 56. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking NE. Taken: 7/22/2022.



Photo 57. Overview of stream conditions. Looking NW. Taken: 7/22/2022.



Photo 59. Dark spot in orthoimagery is dirt pile. Looking S. Taken: 10/18/2022.



Photo 58. No more bed or banks downhill from this location in ephemeral alluvial waterway. Looking NE. Taken: 7/22/2022.



Photo 60. Overview of riverine wetland in this reach. Looking NW. Taken: 10/18/2022.



Photo 61. Overview of wetland and upland conditions. Looking NE. Taken: 10/18/2022.



Photo 62. Overview of stream conditions. Looking NE. Taken: 10/18/2022.



Photo 63. Overview of stream conditions. Looking NE. Taken: 10/18/2022.



Photo 64. Overview of stream conditions. Looking NE. Taken: 10/18/2022.



Photo 65. Origin of spring fed wetland, water follows the slope to the larger ponded area in the background. Looking N. Taken: 10/18/2022.



Photo 66. Overview of stream conditions. Looking E. Taken: 10/18/2022.



Photo 67. Overview of stream conditions. Looking N. Taken: 10/18/2022.



Photo 68. Overview of stream conditions. Looking N. Taken: 10/18/2022.



Photo 69. Overview of stream conditions. Looking N. Taken: 10/18/2022.





Photo 71. one looking up slope and one downslope draining into WT-002 Looking N. Taken: 10/18/2022.



Photo 72. Overview of riverine wetland in this reach. Looking W. Taken: 10/18/2022.



Photo 73. US view at bend, 2nd pic is DS View Looking N. Taken: 10/18/2022.



Photo 75. Ephemeral waterway that drains towards riverine wetland. Looking S. Taken: 10/18/2022.



Photo 74. Overview of riverine wetland in this reach. Looking E. Taken: 10/18/2022.



Photo 76. No bed or banks, cow path down slope. Looking S. Taken: 10/19/2022.



Photo 77. upstream. Tall wheat grass. 3-4 feet wide. Silty bottom. ephemeral or intermittent. No flow. Looking S. Taken: 10/19/2022.



Photo 78. Overview of wetland in roadside drainage ditch. Looking S. Taken: 10/19/2022.



Photo 79. Wetland is spanned by culvert here. Looking N. Taken: 10/19/2022.



Photo 80. No bed or banks on NHD line. Looking SW. Taken: 10/19/2022.



Photo 81. Overview of ephemeral drainage. Looking E. Taken: 10/19/2022.



Photo 83. No bed or banks, this is a cow path down slope. Looking E. Taken: 10/19/2022.



Photo 82. No bed or banks on NHD line. Looking SE. Taken: 10/19/2022.



Photo 84. No bed or banks. Looking NE. Taken: 10/19/2022.



Photo 85. No bed or banks beyond this point. Looking SW. Taken: 10/19/2022.



Photo 87. Slight ephemeral drainage on slope. Looking NE. Taken: 10/19/2022.



Photo 86. Overview of stream conditions. Looking NE. Taken: 10/19/2022.



Photo 88. No hydrologic features at toe of slope. Looking SW. Taken: 10/19/2022.



Photo 89. Slight ephemeral drainage on slope. Looking NE. Taken: 10/19/2022.



Photo 90. Slight ephemeral drainage on slope. Looking NE. Taken: 10/19/2022.



Photo 91. Rocky erosional feature that likely drains water during storm events. Looking NE. Taken: 10/19/2022.



Photo 92. Slight ephemeral drainage on slope. Looking NE. Taken: 10/19/2022.



Photo 93. Overview of stream conditions. Looking SW. Taken: 10/19/2022.



Photo 95. Ephemeral waterway that drains into riverine wetland (in the foreground). Looking NE. Taken: 10/19/2022.



Photo 94. Overview of stream conditions. Looking SW. Taken: 10/19/2022.



Photo 96. Riverine wetland flows through culvert. Looking S. Taken: 10/19/2022.



Photo 97. Riverine wetland conditions in this reach. Looking NW. Taken: 10/19/2022.



Photo 98. Slight ephemeral drainage flowing through grassland. Looking S. Taken: 10/19/2022.



Photo 99. Riverine wetland flows through rangeland. Looking S. Taken: 10/19/2022.



Photo 100. Riverine wetland flows through culvert under access road in quarry. Looking S. Taken: 10/19/2022.



Photo 101. No feature in area that appears dark on orthoimagery. It is a cattle wallow/salt lick. Looking W. Taken: 10/20/2022.



Photo 102. Water trough has a float valve and does not overflow. Looking SE. Taken: 10/20/2022.



Photo 103. Livestock trough not directly connected to seep wetland on surface 15 feet away. Looking E. Taken: 10/20/2022.



Photo 104. Entire seep wetland in photo. Looking NW. Taken: 10/20/2022.



Photo 105. Wetland slopes downhill from overflowing trough. Barnyard grass growing throughout. Looking SE. Taken: 10/20/2022.



Photo 106. Overflowing trough has created wetland conditions. Looking NW. Taken: 10/20/2022.



Photo 107. Black dot in orthoimagery is pile of wood on the ground. Looking S. Taken: 10/20/2022.



Photo 108. No bed or banks on NHD line. Looking N. Taken: 10/20/2022.



Photo 109. General conditions in this slight ephemeral drainage. Looking SW. Taken: 10/20/2022.



Photo 110. Overview of riverine wetland. Looking SE. Taken: 10/20/2022.



Photo 111. No bed or banks on NHD line. Looking SE. Taken: 10/20/2022.



Photo 112. General conditions in this drainage. Looking NW. Taken: 10/20/2022.



Photo 113. No bed or banks beyond this point. Looking NW. Taken: 10/20/2022.



Photo 115. Riverine wetland in this reach. Looking W. Taken: 10/20/2022.



Photo 114. No bed or banks, roadway adjacent to cropfield. Looking E. Taken: 10/20/2022.



Photo 116. Overview of ephemeral drainage. Looking S. Taken: 10/20/2022.



Photo 117. No bed or banks. Looking SW. Taken: 10/20/2022.



Photo 119. Overview of ephemeral drainage. Looking SE. Taken: 10/20/2022.



Photo 118. No bed or banks, this is a sand dune. Looking NW. Taken: 10/20/2022.



Photo 120. Overview of ephemeral drainage. Looking SW. Taken: 10/20/2022.



Photo 121. Overview of ephemeral drainage adjacent to cropfield. Looking N. Taken: 10/20/2022.



Photo 122. No bed and banks beyond this point. Looking SW. Taken: 10/20/2022.



Photo 123. Overview of drainage and cowpath. Looking SW. Taken: 10/21/2022.



Photo 124. Overview of riverine drainage in this reach. Looking SW. Taken: 10/20/2022.





Photo 127. Overview of ephemeral drainage. Looking N. Taken: 10/20/2022.



Photo 126. Overview of ephemeral drainage. Looking W. Taken: 10/20/2022.



Photo 128. Overview of ephemeral drainage. Looking N. Taken: 10/20/2022.



Photo 129. Overview of ephemeral drainage. Looking S. Taken: 10/20/2022.



Photo 131. Overview of riverine wetland. Looking W. Taken: 10/20/2022.



Photo 130. Overview of ephemeral drainage. Looking S. Taken: 10/20/2022.



Photo 132. No bed or banks beyond this point. Looking E. Taken: 10/20/2022.



Photo 133. downstream view. 2ft width, gravel and silt and cobble, Looking SW. Taken: 10/20/2022.



Photo 134. Slight ephemeral drainage on slope. Looking SW. Taken: 10/20/2022.



Photo 135. No bed or banks on NHD. Looking N. Taken: 10/20/2022.



Photo 136. Overview of ephemeral drainage. Looking SW. Taken: 10/20/2022.



Photo 137. Overview of ephemeral drainage. Looking SW. Taken: 10/20/2022.



Photo 139. Overview of ephemeral drainage. Looking NE. Taken: 10/20/2022.



Photo 138. Stream ST-63 does not cross road or connect with riverine wetland. Looking NE. Taken: 10/20/2022.



Photo 140. No bed or banks on NHD line. Looking NE. Taken: 10/20/2022.



Photo 141. No bed or banks beyond this point. Looking N. Taken: 10/20/2022.



Photo 142. Overview of ephemeral drainage. Looking NE. Taken: 10/20/2022.



Photo 143. Overview of ephemeral drainage. Looking NE. Taken: 10/20/2022.



Photo 144. Overview of ephemeral drainage. Looking SW. Taken: 10/20/2022.



Photo 145. Overview of ephemeral drainage. Looking SW. Taken: 10/20/2022.



Photo 147. Dark area in orthoimagery is quarry. Looking E. Taken: 10/21/2022.



Photo 146. No bed or banks on NHD line. Looking S. Taken: 10/21/2022.



Photo 148. Riverine wetland has bank to bank reed canarygrass. Looking NW. Taken: 10/21/2022.



Photo 149. Shallow ephemeral drainage runs through sagebrush. Looking NE. Taken: 10/21/2022.



Photo 151. Ephemeral drainage loses bed and banks in pasture area. Looking S. Taken: 10/21/2022.



Photo 150. Riverine wetland transitions to ephemeral waterway at this point. Looking NW. Taken: 10/21/2022.



Photo 152. Overview of ephemeral drainage. Looking W. Taken: 10/21/2022.



Photo 153. Light green spot on orthoimagery is cereal rye. Looking SW. Taken: 10/21/2022.





Photo 155. Abandoned irrigation infrastructure. Looking NW. Taken: 10/21/2022.



Photo 156. No bed or banks on NHD Looking SW. Taken: 10/21/2022.



Photo 157. Garbage pit appears as dark area on orthoimagery. Looking SW. Taken: 10/21/2022.



Photo 159. Ephemeral drainage has cut down to bedrock. Looking NE. Taken: 10/21/2022.



Photo 158. Ephemeral drainage between two crop fields, loses bed and banks in crop field. Looking N. Taken: 10/21/2022.



Photo 160. Bed and banks do not extend downhill from this point. Looking E. Taken: 10/21/2022.



Photo 161. Riverine wetland conditions in this reach. Looking W. Taken: 10/22/2022.



Photo 164. Overview of riverine wetland. Looking N. Taken: 10/21/2022.



Photo 162. Riverine wetland no longer has standing water and reed canarygrass is dessicated. Looking NW. Taken: 10/21/2022.



Photo 165. Overview of ephemeral drainage. Looking NW. Taken: 10/22/2022.



Photo 166. Overview of ephemeral drainage. Looking NW. Taken: 10/22/2022.



Photo 167. Overview of shallow ephemeral drainage. Looking NW. Taken: 10/22/2022.



Photo 168. Overview of ephemeral waterway from where bed and banks end. Looking NW. Taken: 10/22/2022.



Photo 169. Overview of ephemeral waterway in this reach. Looking SE. Taken: 10/22/2022.



Photo 170. Overview of slight ephemeral drainage. Looking E. Taken: 10/22/2022.



Photo 172. No bed or banks on terrace. Looking N. Taken: 10/22/2022.



Photo 171. Overview of slight ephemeral drainage. Looking E. Taken: 10/22/2022.



Photo 173. Overview of ephemeral drainage, all upland plants. Looking NE. Taken: 10/22/2022.



Photo 174. No feature on dark spot in orthoimagery, basalt rock with very little soil and vegetation. Looking S. Taken: 10/22/2022.



Photo 176. Overview of ephemeral drainage. Looking NW. Taken: 10/22/2022.



Photo 175. Livestock pond does not meet hydric criteria. Water is from rain earlier in the day and is sitting on surface, soils not saturated. Looking NE. Taken: 10/22/2022.



Photo 177. Seep wetland, hydrology disrupted by road. Looking E. Taken: 10/22/2022.



Photo 178. Double culvert under road drains riverine wetland to drainage on other side. Looking W. Taken: 10/22/2022.



Photo 180. Overview of alluvial ephemeral drainage. Looking NE. Taken: 10/21/2022.



Photo 179. Riverine wetland, Little Butter Creek, has vegetation covering bank to bank in this section. Looking N. Taken: 10/22/2022.



Photo 181. Overview of alluvial ephemeral drainage. Looking NE. Taken: 10/21/2022.



Photo 182. No bed or banks inside survey area, ephemeral drainage outside of survey. Looking NE. Taken: 10/21/2022.



Photo 183. Overview of ephemeral drainage. Looking NE. Taken: 10/21/2022.



Photo 184. Overview of ephemeral drainage on slope. Looking NE. Taken: 10/21/2022.



Photo 185. Overview of ephemeral drainage on slope. Looking NE. Taken: 10/21/2022.



Photo 186. Overview of ephemeral drainage on slope above riverine wetland. Looking NE. Taken: 10/21/2022.



Photo 187. Overview of slight ephemeral drainage. Looking NE. Taken: 10/21/2022.



Photo 188. Overview of ephemeral drainage. Looking N. Taken: 10/21/2022.



Photo 189. Ephemeral waterway joins riverine wetland. Looking S. Taken: 10/21/2022.



Photo 190. Ephemeral waterway flows towards riverine wetland in background. Looking S. Taken: 10/21/2022.



Photo 191. Overview of alluvial ephemeral drainage. Looking NW. Taken: 10/21/2022.



Photo 192. Overview of wetland originating from cow pond outside of the survey area. Looking N. Taken: 10/21/2022.



Photo 193. Riverine wetland conditions in this reach. Looking NE. Taken: 10/22/2022.



Photo 194. Ephemeral drainage starts on right side of the gate. Looking NE. Taken: 10/22/2022.



Photo 195. Ephemeral drainage runs alongside fence. Looking NE. Taken: 10/22/2022.



Photo 196. Wetland originates from piped water trough. Water is continuously flowing. Looking S. Taken: 10/22/2022.



Photo 197. Standing water in wetland. Looking SW. Taken: 10/22/2022.





Photo 200. Riverine wetland conditions in this reach. Looking N. Taken: 10/22/2022.



Photo 199. Riverine wetland conditions in this reach. Looking SW. Taken: 10/22/2022.



Photo 201. south side of culvert looking upstream Looking SW. Taken: 10/22/2022.



Photo 202. Riverine wetland conditions in this reach. Looking N. Taken: 10/22/2022.



Photo 203. Riverine wetland conditions in this reach. Looking SW. Taken: 10/22/2022.



Photo 204. No bed or banks. Looking S. Taken: 10/22/2022.



Photo 205. Riverine wetland. Looking S. Taken: 10/22/2022.



Photo 206. Slight ephemeral drainage in valley bottom. Looking E. Taken: 10/22/2022.



Photo 207. Ephemeral waterway running through swale between hills. Looking E. Taken: 10/22/2022.



Photo 208. Overview of ephemeral drainage adjacent to cow path. Looking E. Taken: 10/22/2022.



Photo 209. Overview of ephemeral drainage. Looking E. Taken: 10/22/2022.



Photo 210. Ephemeral drainage in alfalfa field is a continuation of riverine wetland on opposite side of the road. Looking S. Taken: 10/22/2022.



Photo 212. downstream view Looking W. Taken: 10/23/2022.



Photo 211. Overview of slight ephemeral drainage, runs through culvert under the highway. Looking E. Taken: 10/23/2022.



Photo 213. Overview of ephemeral drainage in this reach. Looking E. Taken: 10/23/2022.



Photo 214. Overview of ephemeral drainage in this reach. Looking S. Taken: 10/23/2022.



Photo 215. General conditions in this ephemeral drainage. Looking SE. Taken: 10/23/2022.



Photo 216. General conditions in this reach of the ephemeral drainage. Looking NW. Taken: 10/23/2022.



Photo 217. Culvert under road but no bed or banks in crop field or other evidence of flow. Looking NW. Taken: 10/23/2022.



Photo 218. No bed or banks on NHD in crop field. Looking SE. Taken: 10/23/2022.



Photo 219. No bed or banks on NHD in crop field. Looking SE. Taken: 10/23/2022.



Photo 218. No bed or banks on NHD in crop field. Looking SE. Taken: 10/23/2022.



Photo 220. No bed or banks on NHD line. Looking SE. Taken: 10/23/2022.



Photo 221. Overview of ephemeral drainage. Looking S. Taken: 10/23/2022.



Photo 223. Standing water in small wetland around irrigation pipe. Looking S. Taken: 10/23/2022.



Photo 222. Small wetland around irrigation pipe. Looking N. Taken: 10/23/2022.



Photo 224. Obstruction in drainage. Looking S. Taken: 10/23/2022.



Photo 225. Overview of conditions in this reach. Looking SE. Taken: 10/23/2022.



Photo 227. No bed or bank Looking SE. Taken: 10/24/2022.



Photo 226. No bed or bank on NHd line. Looking NW. Taken: 10/24/2022.



Photo 228. Overview of ephemeral drainage. Looking SE. Taken: 10/24/2022.



Photo 229. No bed or banks on NHD in this area. Looking NW. Taken: 10/24/2022.



Photo 230. Overview of ephemeral drainage. Looking S. Taken: 10/24/2022.



Photo 231. Overview of ephemeral drainage. Looking S. Taken: 10/24/2022.



Photo 232. No bed or banks. Looking N. Taken: 10/24/2022.



Photo 233. Little Butter Creek does not cross into project area here. Looking N. Taken: 10/24/2022.



Photo 234. No bed or banks towards Little Butter Creek. Looking SW. Taken: 10/24/2022.



Photo 235. Ephemeral drainage 1 foot wide. Cereal rye, mustard, cheatgrass, rattail fescue. Looking W. Taken: 10/25/2022.



Photo 236. No bed or banks at farm crossing. Looking W. Taken: 10/25/2022.



Photo 237. Ephemeral waterway does not have bed or banks beyond this point. Looking E. Taken: 10/25/2022.



Photo 239. No wetland features on NWI. Looking N. Taken: 10/25/2022.



Photo 238. Barely discernable drainage in pasture. 1 foot wide. Looking N. Taken: 10/25/2022.



Photo 240. Slight ephemeral drainage in pasture. Looking W. Taken: 10/25/2022.



Photo 241. Overview of ephemeral drainage in pasture. Looking W. Taken: 10/25/2022.



Photo 243. Riverine wetland drains into Butter Creek. Looking SW. Taken: 10/25/2022.



Photo 242. No more bed and banks beyond this point. Looking E. Taken: 10/25/2022.



Photo 244. Butter Creek, general conditions in riverine wetland flow through. Looking NW. Taken: 10/25/2022.



Photo 245. Overview of ephemeral drainage. Looking SW. Taken: 10/25/2022.



Photo 247. Overview of ephemeral drainage. Looking S. Taken: 10/25/2022.



Photo 246. No bed or banks. Looking NW. Taken: 10/25/2022.



Photo 248. Overview of ephemeral drainage. Looking NE. Taken: 10/25/2022.



Photo 249. No more bed or banks downhill from this location in ephemeral drainage. Looking SW. Taken: 10/25/2022.

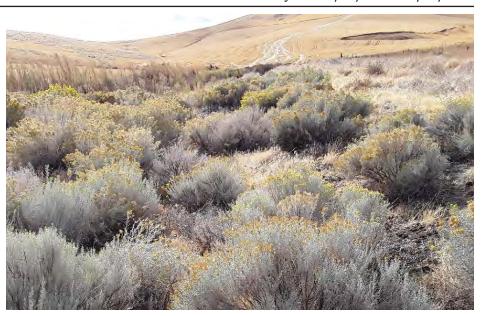


Photo 250. Overview of ephemeral drainage in rabbitbrush. Looking S. Taken: 10/25/2022.



Photo 251. Overview of ephemeral drainage. Looking E. Taken: 10/25/2022.



Photo 252. Overview of ephemeral drainage. Looking E. Taken: 10/25/2022.



Photo 253. No bed or banks beyond this point. Looking W. Taken: 10/25/2022.



Photo 254. Overview of ephemeral drainage. Looking E. Taken: 10/25/2022.



Photo 255. Ephemeral drainage doesn't connect to Butter Creek. Looking W. Taken: 10/25/2022.



Photo 256. Overview of ephemeral drainage. Looking E. Taken: 10/25/2022.



Photo 257. No bed or banks beyond this point. Looking NE. Taken: 10/25/2022.



Photo 259. No bed or banks on NHD. Looking SE. Taken: 10/26/2022.



Photo 258. Overview of ephemeral drainage. Looking W. Taken: 10/25/2022.



Photo 260. Intermittent drainage adjacent to irrigated cropfield. Looking S. Taken: 10/25/2022.





Photo 263. Overview of Little Butter Creek in this reach. Looking N. Taken: 10/25/2022.



Photo 262. Irrigation pond in concrete box in drainage. Looking SW. Taken: 10/25/2022.



Photo 264. No bed or banks on NHD. Looking NE. Taken: 10/25/2022.



Photo 265. Overview of Little Butter Creek in this reach. Looking W. Taken: 10/25/2022.



Photo 266. Irrigation canal on north side of Butter Creek. Looking W. Taken: 10/25/2022.



Photo 267. Butter Creek in this reach. Looking E. Taken: 10/25/2022.



Photo 268. No bed or banks on this side of road. Looking N. Taken: 10/25/2022.



Photo 269. No bed or banks on NHD line in cropfield. Looking N. Taken: 10/25/2022.



Photo 270. Bed and banks end at road. Looking S. Taken: 10/25/2022.



Photo 271. Overview of ephemeral drainage. Looking N. Taken: 10/26/2022.



Photo 272. No more bed or banks Looking S. Taken: 10/27/2022.



Photo 273. Slight ephemeral drainage. Looking N. Taken: 10/28/2022.



Photo 274. Overview of alluvial ephemeral drainage. Looking SE. Taken: 10/25/2022.



Photo 275. Drainage present on both sides of the road but more prominent on this north side. Looking S. Taken: 10/25/2022.



Photo 276. Overview of ephemeral drainage. Looking S. Taken: 10/26/2022.



Photo 277. Overview of ephemeral drainage. Looking S. Taken: 10/27/2022.



Photo 279. Ephemeral drainage between fields. Looking S. Taken: 10/25/2022.



Photo 278. Ephemeral drainage between wheat fields full of russian thistle, ripgut brome, prickly lettuce, rabbitbrush, and prickly lettuce Looking NE. Taken: 10/25/2022.



Photo 280. Ephemeral drainage adjacent to cropfield. Looking SW. Taken: 10/25/2022.



Photo 281. Ephemeral drainage adjacent to cropfield. Looking S. Taken: 10/25/2022.



Photo 283. Irrigation canal on north side of Butter Creek conditions in this reach. Looking E. Taken: 10/25/2022.



Photo 282. No bed or banks on this side of road Looking N. Taken: 10/25/2022.



Photo 284. Bridge over Butter Creek, farm access only. Looking W. Taken: 10/25/2022.



Photo 285. Overview of slight ephemeral drainage running across valley bottom. Looking S. Taken: 10/25/2022.



Photo 287. Culvert outflow, no wetland indicators. Looking SE. Taken: 10/26/2022.



Photo 286. No bed or banks on north side of road. Looking N. Taken: 10/25/2022.



Photo 288. Channel does not continue past this point. Looking NE. Taken: 10/26/2022.



Photo 289. Overview of ephemeral stream conditions. Looking SW. Taken: 10/26/2022.



Photo 290. Looking downstream little butter creek Looking NE. Taken: 10/26/2022.



Photo 291. Intermittent distributary of Little Butter Creek. Looking SW. Taken: 10/26/2022.



Photo 292. Little Butter Creek and distributary split here. Looking N. Taken: 10/26/2022.



Photo 293. Culvert under farm road. Looking N. Taken: 10/26/2022.



Photo 295. Little Butter Creek on north side of culvert. Looking N. Taken: 10/26/2022.



Photo 294. Channel loses bed and banks, becomes more of a two track farm road. Looking N. Taken: 10/26/2022.



Photo 296. Looking upstream from a high point adjacent to Little Butter Creek. Looking SW. Taken: 10/26/2022.



Photo 297. Little Butter Creek in this reach. Looking N. Taken: 10/26/2022.



Photo 298. Overview of ephemeral drainage at toe of slope. Looking N. Taken: 10/24/2022.



Photo 299. Overview of ephemeral drainage. Looking SE. Taken: 10/24/2022.



Photo 300. Overview of Little Butter Creek in this reach. Looking S. Taken: 10/24/2022.



Photo 301. No more bed or banks on ephemeral waterway, turns to two-track farm road. Looking SE. Taken: 10/25/2022.



Photo 302. Overview of ephemeral waterway conditions. Looking SE. Taken: 10/25/2022.



Photo 303. Irrigation pipeline crosses Butter Creek where tributary NHD line crosses. Looking NW. Taken: 10/25/2022.



Photo 304. General conditions in riverine wetland/Butter Creek. Looking SE. Taken: 10/25/2022.



Photo 305. Wetland sample site. Looking N. Taken: 10/25/2022.



Photo 307. Overview of incised ephemeral drainage. All upland plants inbetween banks. Looking SW. Taken: 11/8/2022.



Photo 306. Upland sample site. Looking S. Taken: 10/25/2022.



Photo 308. Riverine wetland, no water present at any time from March to October. Looking NE. Taken: 11/8/2022.



Photo 309. No wetland or waters downslope from here. Looking NW. Taken: 11/8/2022.



Photo 310. Ephemeral drainage in this reach. Looking SW. Taken: 11/8/2022.



Photo 311. General conditions in this reach, all upland vegetation. Looking NE. Taken: 11/8/2022.



Photo 312. Riverine wetland in incised drainage. Looking NE. Taken: 11/8/2022.



Photo 313. Overview of wetland Looking NE. Taken: 11/8/2022.



Photo 315. Overview of ephemeral stream conditions. Looking N. Taken: 11/8/2022.



Photo 314. Overview of pond with about 6 to 12 inches of wetland fringe. Looking NW. Taken: 11/8/2022.



Photo 316. No bed or banks discernible in this section. Looking NW. Taken: 11/8/2022.



Photo 317. This is where a very shallow ephemeral drainage can be obseved. A cow trail creates a depression in the swale. Looking NW. Taken: 11/8/2022.



Photo 318. Two track interrupts shallow ephemeral channel. Looking SW. Taken: 11/8/2022.



Photo 319. Overview of ephemeral drainage in this reach. Looking E. Taken: 11/8/2022.



Photo 320. Overview of ephemeral drainage. Looking SE. Taken: 11/8/2022.



Photo 321. Vegetated ephemeral drainage. Looking NW. Taken: 11/8/2022.



Photo 323. Shallow ephemeral drainage. Looking NE. Taken: 11/8/2022.



Photo 322. No bed or banks on the valley floor downslope from alluvial ephemeral waterway. Looking NE. Taken: 11/8/2022.



Photo 324. Ephemeral drainage, general conditions. Looking SW. Taken: 11/8/2022.



Photo 325. No bed or banks on valley floor. Looking SW. Taken: 11/8/2022.



Photo 327. Upland conditions adjacent to wetland. Looking SE. Taken: 11/9/2022.



Photo 326. Overview of riverine wetland. Looking SE. Taken: 11/9/2022.



Photo 328. General conditions in ephemeral drainage. Looking N. Taken: 11/9/2022.



Photo 329. No more bed or banks before road crossing. Site is slightly elevated, no hydric plants. Looking S. Taken: 11/9/2022.



Photo 331. Overview of small wetland. Looking S. Taken: 11/9/2022.



Photo 330. Wetland originates from piped water trough. Water is continuously flowing. Looking S. Taken: 11/9/2022.



Photo 332. Barely discernible channel in valley bottom. Looking N. Taken: 11/9/2022.



Photo 333. Overview of ephemeral drainage. Looking E. Taken: 11/9/2022.



Photo 335. No bed or banks in ephemeral drainage beyond this point. Looking W. Taken: 11/9/2022.



Photo 334. Overview of ephemeral drainage. Looking W. Taken: 11/9/2022.



Photo 336. Overview of ephemeral drainage, all upland plants. Looking E. Taken: 11/9/2022.



Photo 337. Overview of ephemeral drainage, all upland plants. Looking E. Taken: 11/9/2022.



Photo 338. Overview of ephemeral drainage. Looking SW. Taken: 11/10/2022.



Photo 339. Overview of drainage. Looking NE. Taken: 11/10/2022.



Photo 340. Ephemeral drainage general conditions. Looking NE. Taken: 11/10/2022.



Photo 341. Dark area in orthoimagery is basalt outcrop. Looking NW. Taken: 11/10/2022.



Photo 343. No more bed and banks after this point in short ephemeral drainage (gully). Looking NE. Taken: 11/10/2022.



Photo 342. Overview of ephemeral drainage. Looking NE. Taken: 11/10/2022.



Photo 344. Overview of ephemeral drainage. Looking NE. Taken: 11/10/2022.



Photo 345. Overview of ephemeral drainage on steep slope. Looking S. Taken: 11/10/2022.



Photo 346. Ephemeral drainage flows over basalt waterfall. Looking E. Taken: 11/10/2022.



Photo 347. Overview of ephemeral drainage. Looking E. Taken: 11/10/2022.



Photo 348. No drainage here, swale feature. Looking S. Taken: 11/10/2022.



Photo 349. Drainage begins outside of study area. Looking SW. Taken: 11/10/2022.



Photo 351. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/12/2022.



Photo 350. No bed or banks. Looking E. Taken: 11/12/2022.



Photo 352. Bed and banks do not cross cultivated field. Looking W. Taken: 11/12/2022.



Photo 353. No bed or banks in this cultivated field. Looking W. Taken: 11/12/2022.



Photo 355. This shallow channel is interrupted by a plowed field. Looking W. Taken: 11/12/2022.



Photo 354. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/12/2022.



Photo 356. No more bed and banks beyond this point. Looking NW. Taken: 11/12/2022.



Photo 357. Channel is full of Russian thistle. Looking SE. Taken: 11/12/2022.



Photo 359. Dirt road interrupts channel. May be a fireline. Looking E. Taken: 11/12/2022.



Photo 358. Wheat field. No bed or banks. Looking S. Taken: 11/12/2022.



Photo 360. No bed or banks. Looking NW. Taken: 11/12/2022.



Photo 361. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/12/2022.



Photo 363. Looking downstream onto property with no access, ephemeral drainage does extend onto their property along road. Looking N. Taken: 11/12/2022.



Photo 362. Bed and banks do not cross cultivated field. Looking SW. Taken: 11/12/2022.



Photo 364. Overview of ephemeral drainage running down gradual slope. Looking S. Taken: 11/12/2022.



Photo 365. Gravel road does not have bed or banks and there is no culvert. Looking E. Taken: 11/12/2022.



Photo 367. Overview of ephemeral drainage. Looking NW. Taken: 11/12/2022.



Photo 366. Lookiwg dowwstream owto property with wo access, ephemeral draiwage does extend owto their property alowg road. Looking W. Taken: 11/12/2022.



Photo 368. Overview of ephemeral drainage. Looking N. Taken: 11/12/2022.



Photo 369. Overview of ephemeral drainage. Looking S. Taken: 11/12/2022.



Photo 371. Ephemeral drainage in swale. Looking S. Taken: 11/14/2022.



Photo 370. Overview of ephemeral drainage. Looking S. Taken: 11/12/2022.



Photo 372. Ephemeral drainage with upland vegetation throughout channel. Looking NE. Taken: 11/14/2022.



Photo 373. Overview of ephemeral drainage. Looking N. Taken: 11/14/2022.



Photo 375. No wetland on NWI. THIS BELONGS IN B2H DATA Looking SE. Taken: 11/14/2022.



Photo 374. Ephemeral drainage on valley bottom. Looking E. Taken: 11/14/2022.



Photo 376. Riverine wetland in incised drainage Looking NE. Taken: 11/14/2022.



Photo 377. General conditions in this reach, no wetland features. Looking N. Taken: 11/14/2022.



Photo 378. Alluvial ephemeral drainage one foot wide. Looking E. Taken: 11/14/2022.



Photo 379. Overview of alluvial ephemeral drainage. Looking E. Taken: 11/14/2022.



Photo 380. No bed or banks beyond this point. Looking W. Taken: 11/14/2022.



Photo 381. Overview of ephemeral drainage. Looking SE. Taken: 11/14/2022.



Photo 382. Overview of ephemeral drainage. Looking SE. Taken: 11/14/2022.



Photo 383. Overview of ephemeral drainage. Looking NE. Taken: 11/14/2022.



Photo 384. No bed or banks downhill from this spot. Looking SE. Taken: 11/14/2022.



Photo 385. Overview of ephemeral drainage. Looking NW. Taken: 11/14/2022.



Photo 387. Overview of ephemeral drainage. Looking N. Taken: 11/14/2022.



Photo 386. Overview of ephemeral drainage. Looking SE. Taken: 11/14/2022.



Photo 388. No bed or banks on NHD line. Looking E. Taken: 11/14/2022.



Photo 389. Overview of ephemeral drainage. Looking SW. Taken: 11/14/2022.



Photo 391. Overview of ephemeral drainage that is tributary to another ephemeral drainage. Looking S. Taken: 11/14/2022.



Photo 390. Overview of ephemeral drainage that is tributary to another ephemeral drainage. Looking S. Taken: 11/14/2022.



Photo 392. Overview of ephemeral drainage. Looking E. Taken: 11/14/2022.



Photo 393. Overview of ephemeral drainage. Looking SW. Taken: 11/14/2022.



Photo 395. Ephemeral drainage loses bed and banks in pasture area. Looking S. Taken: 11/14/2022.



Photo 394. Livestock watering trough, has float and does not overflow. Looking NW. Taken: 11/14/2022.



Photo 396. No more bed and banks beyond this point. Looking SE. Taken: 11/14/2022.



Photo 397. Overview of ephemeral drainage in deep valley. Looking S. Taken: 11/14/2022.



Photo 399. No more bed and banks in this pasture area. Looking N. Taken: 11/14/2022.



Photo 398. Showing built up road crossing in drainage. No hydric features on uphill or downhill sides. Looking SE. Taken: 11/14/2022.



Photo 400. Culvert under Butter Creek Road, tumble mustard growing at entrance. Looking NW. Taken: 11/14/2022.



Photo 401. Overview of ephemeral drainage. Looking SE. Taken: 11/14/2022.



Photo 403. Irrigation ditch flow control structures. Looking E. Taken: 11/14/2022.



Photo 402. Culvert is perched coming out from under Butter Creek Rd, there is no bed or banks on this downhill end either. Looking NW. Taken: 11/14/2022.



Photo 404. Overview of ephemeral drainage. Looking W. Taken: 11/14/2022.



Photo 405. Overview of ephemeral drainage. Looking S. Taken: 11/14/2022.



Photo 407. Overview of ephemeral drainage. Looking W. Taken: 11/14/2022.



Photo 406. Overview of ephemeral drainage. Looking SW. Taken: 11/14/2022.



Photo 408. Overview of ephemeral drainage conditions in this reach. No wetland features. Looking N. Taken: 11/14/2022.







Photo 411. Overview of ephemeral drainage. Looking E. Taken: 11/14/2022.



Photo 410. Overview of ephemeral drainage. Looking SW. Taken: 11/14/2022.



Photo 412. Overview of incised ephemeral drainage. Looking N. Taken: 11/14/2022.



Photo 413. Salt lick not wetland in area that appears lighter in orthoimagery Looking SW. Taken: 11/15/2022.



Photo 415. Ephemeral drainage becomes incised as it slope increases. Looking SE. Taken: 11/15/2022.



Photo 414. Ephemeral drainage on valley bottom. Looking E. Taken: 11/15/2022.



Photo 416. Ephemeral drainage in steep valley. Looking W. Taken: 11/15/2022.



Photo 417. Riverine wetland (Little Butter Creek). Looking N. Taken: 11/15/2022.





Photo 419. Overview of ephemeral drainage. Looking NE. Taken: 11/15/2022.



 $Photo\ 420.\ Ephemeral\ drainage\ transitions\ to\ riverine\ wetland.\ Looking\ NW.\ Taken:\ 11/15/2022.$



Photo 421. Overview of ephemeral drainage. Looking E. Taken: 11/15/2022.



Photo 423. Overview of ephemeral drainage. Looking NE. Taken: 11/15/2022.



Photo 422. Overview of riverine wetland conditions in this reach. Looking SW. Taken: 11/15/2022.



Photo 424. No hydric features in bermed drainage area. All upland vegeation (Poa bulbosa, common mullein). Looking E. Taken: 11/15/2022.



Photo 425. Ephemeral drainage 1 ft wide, incised. Looking SW. Taken: 11/15/2022.



Photo 427. Barely discernible ephemeral channel. Looking NE. Taken: 11/15/2022.



Photo 426. Ephemeral drainage 1 foot wide Looking NW. Taken: 11/15/2022.



Photo 428. Overview of ephemeral drainage. Looking N. Taken: 11/15/2022.



Photo 429. Overview of ephemeral drainage running down gradual slope. Looking N. Taken: 11/15/2022.



Photo 431. Looking downstream onto property with no access, ephemeral drainage does extend onto their property along road. Looking N. Taken: 11/15/2022.



Photo 430. Overview of ephemeral drainage. Looking S. Taken: 11/15/2022.



Photo 432. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/15/2022.



Photo 433. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/15/2022.



Photo 435. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/15/2022.



Photo 434. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/15/2022.



Photo 436. Overview of ephemeral drainage. Looking SW. Taken: 11/15/2022.



Photo 437. Dry waterfall in drainage. Looking SW. Taken: 11/15/2022.



Photo 439. Bed and banks do not extend downhill from this point. Looking W. Taken: 11/15/2022.



Photo 438. Dehydrated minerals on flowpath over waterfall. Looking E. Taken: 11/15/2022.



Photo 440. Overview of ephemeral drainage. Looking SW. Taken: 11/15/2022.





Photo 443. Overview of ephemeral drainage. Looking W. Taken: 11/15/2022.



Photo 442. Overview of ephemeral drainage. Looking NW. Taken: 11/15/2022.

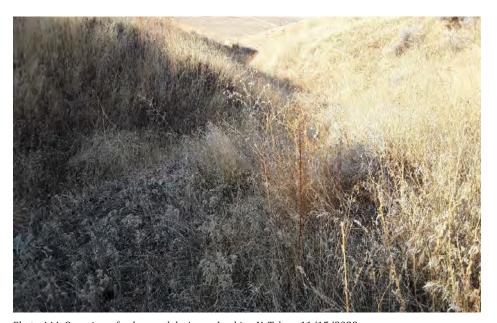


Photo 444. Overview of ephemeral drainage. Looking N. Taken: 11/15/2022.



Photo 445. Overview of ephemeral drainage. Looking SE. Taken: 11/16/2022.



Photo 446. No bed or banks beyond this point. Looking E. Taken: 11/15/2022.



Photo 447. Area that looks green on orthoimagery is cattle feeding area, no wetland features. Looking S. Taken: 11/15/2022.



Photo 448. Stock tank overflow wetland on banks of riverine wetland (trees in background are growing out of riverine wetland). Looking N. Taken: 11/15/2022.



Photo 449. Stock tank overflow wetland drains towards riverine wetland that runs south north through the valley bottom. Looking NW. Taken: 11/15/2022.



Photo 451. Overview of ephemeral drainage that runs along roadway. Looking NW. Taken: 11/16/2022.



Photo 450. No wetland on green spot in orthoimagery, ivestock pond contained without overflow. Looking S. Taken: 11/16/2022.



Photo 452. Ephemeral drainage/animal trail in deep canyon. Looking E. Taken: 11/16/2022.



Photo 453. Ephemeral drainage conditions in this reach. Looking E. Taken: 11/16/2022.



Photo 454. Ephemeral drainage conditions in this reach. Looking NE. Taken: 11/16/2022.



Photo 455. No more bed and banks downhill from this point. Looking S. Taken: 11/16/2022.



Photo 456. Overview of ephemeral drainage running down gradual slope. Looking SW. Taken: 11/16/2022.



Photo 457. Overview of ephemeral drainage running down gradual slope. Looking SW. Taken: 11/16/2022.



Photo 459. Overview of ephemeral drainage. Looking W. Taken: 11/16/2022.



Photo 458. Overview of ephemeral drainage running down gradual slope. Looking W. Taken: 11/16/2022.



Photo 460. No bed or banks, swale feature. Looking SW. Taken: 11/16/2022.



Photo 461. Overview of ephemeral drainage. Looking SW. Taken: 11/16/2022.



Photo 463. Overview of ephemeral drainage. Looking N. Taken: 11/16/2022.



Photo 462. Overview of ephemeral drainage. Looking N. Taken: 11/16/2022.



Photo 464. Overview of ephemeral drainage. Looking NE. Taken: 11/16/2022.



Photo 465. Overview of ephemeral drainage. Looking NE. Taken: 11/16/2022.



Photo 467. Overview of irrigation ditch running along Butter Creek Road. Looking E. Taken: 11/16/2022.



Photo 466. Overview of ephemeral drainage. Looking NE. Taken: 11/16/2022.



Photo 468. Overview of irrigation ditch flowing towards irrigated crop fields. Looking S. Taken: 11/16/2022.



Photo 469. No wetland at green spot on aerial vegetation is this tle and tumble mustard. Looking S. Taken: 11/16/2022.



Photo 470. Wetland vegetation and hydrology end here in drainage. Looking S. Taken: 11/17/2022.



Photo 471. Overview of ephemeral drainage Looking NE. Taken: 11/17/2022.



Photo 472. Overview of ephemeral drainage. Looking NE. Taken: 11/17/2022.



Photo 1000. No bed or banks uphill of rock outcrop. Looking NE. Taken: 3/27/2023.



Photo 1002. Roadside ditch with upland vegetation in field. Looking SE. Taken: 3/27/2023.



Photo 1001. Overview of ephemeral drainage. Looking NE. Taken: 3/27/2023.



Photo 1003. Soil is cracking in a rocky patch in between a wheat field and rocky scabland with upland vegetation. Looking S. Taken: 3/27/2023.



Photo 1004. Upland vegetation in ephemeral stream. Looking W. Taken: 3/27/2023.



Photo 1005. Upland vegetation in ephemeral stream. Looking W. Taken: 3/27/2023.



Photo 1006. No signs of wetland in green sopt on aerial imagery. Looking SE. Taken: 3/27/2023.



Photo 1007. Vernal pool on ridge top. Looking N. Taken: 3/28/2023.





Photo 1017. No vernal pool vegetation. Looking SW. Taken: 3/28/2023.



Photo 1015. Vernal pool on ridge top. Looking NE. Taken: 3/28/2023.



Photo 1008. Vernal pool on ridge top. Looking SW. Taken: 3/28/2023.



Photo 1009. No vernal pool vegetation. Looking W. Taken: 3/28/2023.



Photo 1011. No vernal pool vegetation. Looking SE. Taken: 3/28/2023.



Photo 1010. No vernal pool vegetation. Looking NE. Taken: 3/28/2023.



Photo 1012. No vernal pool vegetation. Looking SW. Taken: 3/28/2023.



Photo 1014. No vernal pool vegetation. Looking W. Taken: 3/28/2023.



Photo 1021. Ephemeral swale crosses two track. Looking SW. Taken: 3/29/2023.



Photo 1016. Vernal pool on ridge top. Looking SW. Taken: 3/28/2023.



Photo 1040. Stream does not continue to the southwest. Looking SW. Taken: 3/29/2023.



Photo 1041. Ephemeral swale. Looking N. Taken: 3/29/2023.



Photo 1018. No signs of wetland in green sopt on aerial imagery. Looking N. Taken: 3/29/2023.



Photo 1019. No bed or banks in crop field. Looking N. Taken: 3/29/2023.



Photo 1023. Wide swale like ephemeral drainage crosses two track. Looking N. Taken: 3/29/2023.



Photo 1024. Rocky outcrop, no bed or banks. Looking S. Taken: 3/29/2023.



Photo 1025. Salt lick. Looking S. Taken: 3/29/2023.



Photo 1026. Human made rock pile. Looking W. Taken: 3/29/2023.



Photo 1028. Vernal pool on ridge top. Looking SE. Taken: 3/29/2023.



Photo 1029. Vernal pool on ridge top. Looking SW. Taken: 3/29/2023.



Photo 1034. Vernal pool on ridge top. Looking SW. Taken: 3/29/2023.



Photo 1032. Vernal pool on ridge top. Looking SE. Taken: 3/29/2023.



Photo 1037. Vernal pool extends into no access parcel. Looking SW. Taken: 3/29/2023.



Photo 1038. Drainage forms in rocky outcropping. Looking S. Taken: 3/29/2023.



Photo 1039. Ephemeral drainage crosses two track. Looking N. Taken: 3/29/2023.



Photo 1043. Ephemeral drainage begins in rocky outcrop. Looking S. Taken: 3/29/2023.



Photo 1044. Ephemeral swale crosses two track on ridge. Looking NE. Taken: 3/29/2023.



Photo 1020. No signs of wetland in green sopt on aerial imagery. Looking SW. Taken: 3/29/2023.



Photo 1022. Ephemeral drainage across two-track. Looking SW. Taken: 3/29/2023.



Photo 1027. Vernal pool with weedy vegetation and navarettia. Looking SW. Taken: 3/29/2023.



Photo 1030. Vernal pool at base of short drainage extends out of survey corridor. Looking NE. Taken: 3/29/2023.



Photo 1031. Shallow soil drainage towards vernal pool. Looking W. Taken: 3/29/2023.



Photo 1033. Vernal pool on ridge top. Looking W. Taken: 3/29/2023.



Photo 1035. Vernal pool on ridge top. Looking W. Taken: 3/29/2023.



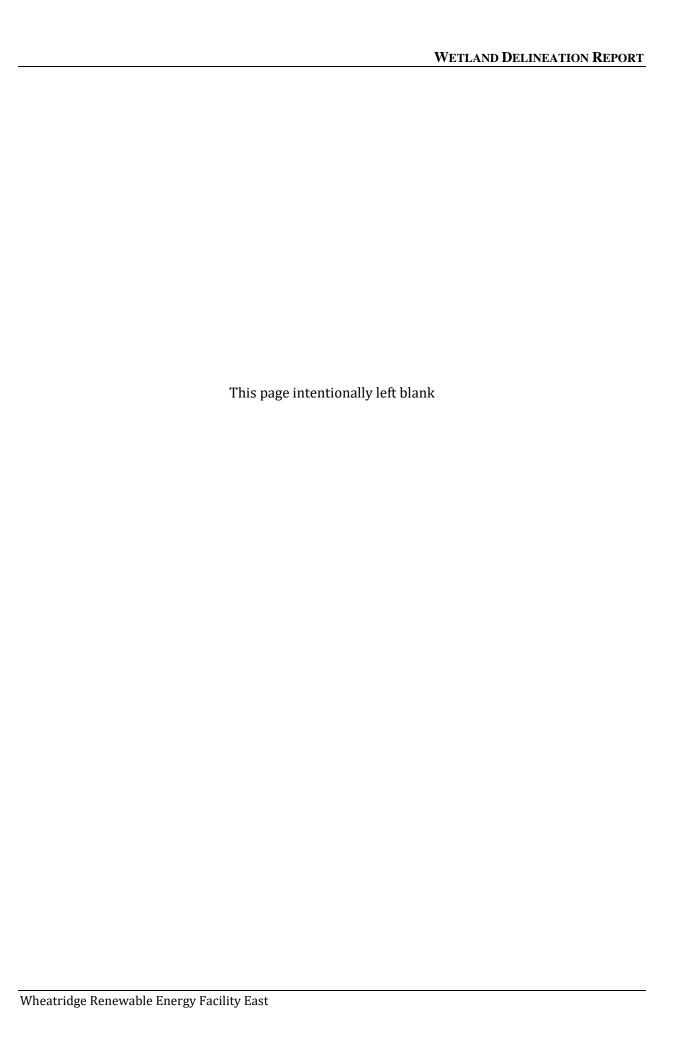
Photo 1036. Vernal Pool extends off site to the south. Looking SW. Taken: 3/29/2023.



Photo 1042. Ephemeral wash crosses road and flows downhill. Looking NE. Taken: 3/29/2023.

WETL	AND	DELINE	CATION	REPORT

Appendix C. Wetlands and Waters Summary Tables



Wetland Summary

Wetland Name	Wetland Type	General Conditions	Acres
WET-01	Riverine	Riverine wetland in area heavily used by livestock. Vegetation was sparse in early spring but by late summer was full across bed and banks.	5.15
WET-02	Riverine	Upstream continuation of WET-01, also a riverine wetland in drainage.	4.61
WET-03	Riverine	Wetland originates from trough overflow and drains into WET-02.	0.08
WET-04	Riverine	Riverine wetland in incised drainage. Standing water/running water about 5 inches deep.	0.25
WET-05	Emergent	Stock tank fed wetland.	0.03
WET-06	Emergent	Small wetland near stock tank.	0.00
WET-07	Riverine	Riverine wetland is confined by road crossing.	0.07
WET-08	Emergent	Livestock pond with wetland fringe.	0.06
WET-09	Emergent	Riverine wetland in narrow drainage. Very incised with mature cottonwood and vegetation bank to bank.	0.41
WET-10	Emergent	Riverine wetland in mostly dry drainage. Wetland conditions only exist in this small area where ground water reaches soil surface and wetland vegetation is present. Water goes subsurface just outside the project boundary and there are not more wetland plants downstream.	0.11
WET-11	Riverine	Perennial stream (Little Butter Creek) with riverine wetland conditions throughout.	2.39
WET-12	Riverine	Riverine wetland with no running water at any season we were there.	7.10
WET-13	Emergent	Seep wetland on slope above a two-track road. Wetland conditions do not extend past road edge.	0.03
WET-14	Emergent	Wetland around overflowing livestock pond. Drains towards WET-12 outside of the survey area.	0.07
WET-15	Riverine	Wetland fed via pipe from spring fed cattle pond just outside and upstream from the survey boundary.	0.34
WET-16	Emergent	Seep wetland, highly disturbed by livestock.	0.05
WET-17	Emergent	Livestock trough overflows down a slight slope, creating wetland.	0.14
WET-18	Riverine	Riverine wetland. Long stream with bank to bank vegetation at the bottom of hillside. Flows into WET-19.	11.17
WET-19	Emergent	Riverine wetland. WET-18 flows into.	0.05
WET-20	Emergent	Small wetland within a deep, mostly dry ditch.	0.04
WET-1000	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.02
WET-1001	Vernal Pool	Standing water in vernal pool.	0.10
WET-1002	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.16
WET-1003	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.04
WET-1004	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.21
WET-1005	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.04
WET-1006	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.08
WET-1007	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.06
WET-1008	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils. Weedy vegetation and vernal pool plants.	0.09
WET-1010	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.03
WET-1011	Vernal Pool	Shallow wetland on ridgetop with cracked clay soils.	0.03
WET-1012	Vernal Pool	Vernal pool extends into inaccessible parcel to the south.	0.07
WET-1013	Vernal Pool	Desktop delineated vernal pool inside inaccessible parcel.	0.01
Total			33.08

Waters Summary

Stream Name	Stream Duration	Flow Origination
ST-1	Ephemeral	Flows into study area
ST-2	Ephemeral	Flows into study area
ST-3	Ephemeral	Flows into study area
ST-4	Ephemeral	Completely within study area
ST-5	Ephemeral	Completely within study area
ST-6	Ephemeral	Flows into study area
ST-7	Ephemeral	Flows into study area
ST-8	Ephemeral	Flows into study area
ST-9	Intermittent	Completely within study area
ST-10	Ephemeral	Flows into study area
ST-11	Ephemeral	Completely within study area
ST-12	Ephemeral	Completely within study area
ST-13	Ephemeral	Flows into study area
ST-14	Ephemeral	Completely within study area
ST-15	Ephemeral	Completely within study area
ST-16	Ephemeral	Completely within study area
ST-17	Ephemeral	Completely within study area
ST-18	Ephemeral	Completely within study area
ST-19	Ephemeral	Completely within study area
ST-20	Ephemeral	Completely within study area
ST-21	Ephemeral	Completely within study area
ST-22	Ephemeral	Flows into study area
ST-23	Ephemeral	Completely within study area
ST-24	Ephemeral	Completely within study area
ST-25	Ephemeral	Flows into study area
ST-26	Ephemeral	Flows into study area
ST-27	Ephemeral	Flows into study area
ST-28	Ephemeral	Completely within study area
ST-29	Ephemeral	Completely within study area
ST-30	Ephemeral	Flows into study area
ST-31	Ephemeral	Completely within study area
ST-32	Ephemeral	Completely within study area
ST-33	Ephemeral	Flows into study area
ST-34	Intermittent	Flows into study area

Stream Name	Stream Duration	Flow Origination
ST-35	Ephemeral	Flows in and out of study area
ST-36	Ephemeral	Flows in and out of study area
ST-37	Ephemeral	Completely within study area
ST-38	Ephemeral	Completely within study area
ST-39	Ephemeral	Completely within study area
ST-40	Ephemeral	Flows into study area
ST-41	Ephemeral	Completely within study area
ST-42	Ephemeral	Flows into study area
ST-43	Ephemeral	Flows into study area
ST-44	Ephemeral	Flows into study area
ST-45	Ephemeral	Flows into study area
ST-46	Ephemeral	Completely within study area
ST-47	Ephemeral	Originates and flows out of study area
ST-48	Ephemeral	Completely within study area
ST-49	Ephemeral	Originates and flows out of study area
ST-50	Ephemeral	Originates and flows out of study area
ST-51	Ephemeral	Originates and flows out of study area
ST-52	Ephemeral	Flows into study area
ST-53	Ephemeral	Flows in and out of study area
ST-54	Ephemeral	Flows into study area
ST-55	Ephemeral	Flows into study area
ST-56	Ephemeral	Completely within study area
ST-57	Ephemeral	Flows into study area
ST-58	Ephemeral	Completely within study area
ST-59	Ephemeral	Originates and flows out and back into study area
ST-60	Ephemeral	Completely within study area
ST-61	Ephemeral	Completely within study area
ST-62	Ephemeral	Completely within study area
ST-63	Ephemeral	Flows into study area
ST-64	Ephemeral	Completely within study area
ST-65	Ephemeral	Flows into study area
ST-66	Ephemeral	Completely within study area
ST-67	Ephemeral	Completely within study area
ST-68	Ephemeral	Flows into study area
ST-69	Ephemeral	Flows into study area
ST-70	Ephemeral	Flows into study area

Stream Name	Stream Duration	Flow Origination
ST-71	Ephemeral	Flows into study area
ST-72	Ephemeral	Flows in and out of study area
ST-73	Ephemeral	Flows into study area
ST-74	Ephemeral	Originates and flows out of study area
ST-75	Ephemeral	Completely within study area
ST-76	Ephemeral	Completely within study area
ST-77	Ephemeral	Completely within study area
ST-78	Ephemeral	Completely within study area
ST-79	Ephemeral	Flows into study area
ST-81	Ephemeral	Completely within study area
ST-82	Ephemeral	Originates and flows out of study area
ST-83	Ephemeral	Flows into study area
ST-84	Ephemeral	Flows into study area
ST-85	Ephemeral	Flows into study area
ST-86	Ephemeral	Flows into study area
ST-87	Ephemeral	Flows into study area
ST-88	Ephemeral	Flows into study area
ST-89	Intermittent	Flows into study area
ST-90	Ephemeral	Completely within study area
ST-91	Ephemeral	Completely within study area
ST-92	Ephemeral	Flows into study area
ST-93	Ephemeral	Completely within study area
ST-94	Ephemeral	Completely within study area
ST-95	Ephemeral	Completely within study area
ST-96	Ephemeral	Flows in and out of study area
ST-97	Ephemeral	Flows into study area
ST-98	Ephemeral	Completely within study area
ST-99	Ephemeral	Flows in and out of study area
ST-100	Ephemeral	Flows in and out of study area
ST-101	Ephemeral	Flows in and out of study area
ST-102	Ephemeral	Flows into study area
ST-103	Ephemeral	Flows in and out of study area
ST-104	Ephemeral	Flows into study area
ST-105	Ephemeral	Flows in and out of study area
ST-106	Ephemeral	Flows in and out of study area
ST-107	Ephemeral	Flows in and out of study area

Stream Name	Stream Duration	Flow Origination
ST-108	Ephemeral	Flows in and out of study area
ST-109	Ephemeral	Flows in and out of study area
ST-110	Ephemeral	Completely within study area
ST-111	Ephemeral	Completely within study area
ST-112	Ephemeral	Flows in and out of study area
ST-113	Ephemeral	Completely within study area
ST-114	Ephemeral	Flows in and out of study area
ST-115	Ephemeral	Flows into study area
ST-116	Ephemeral	Flows in and out of study area
ST-117	Ephemeral	Flows in and out of study area
ST-118	Ephemeral	Flows into study area
ST-119	Ephemeral	Flows into study area
ST-120	Ephemeral	Flows into study area
ST-121	Ephemeral	Completely within study area
ST-122	Ephemeral	Completely within study area
ST-123	Ephemeral	Flows into study area
ST-124	Ephemeral	Flows into study area
ST-125	Ephemeral	Flows into study area
ST-126	Perrenial	Flows in and out of study area
ST-127	Ephemeral	Flows into study area
ST-128	Ephemeral	Flows into study area
ST-129	Ephemeral	Flows in and out of study area
ST-130	Ephemeral	Flows into study area
ST-131	Ephemeral	Flows into study area
ST-132	Ephemeral	Completely within study area
ST-133	Ephemeral	Flows into study area
ST-134	Ephemeral	Flows in and out of study area
ST-135	Ephemeral	Flows into study area
ST-136	Intermittent	Completely within study area
ST-137	Perrenial	Flows in and out of study area
ST-138	Ephemeral	Flows in and out of study area
ST-139	Ephemeral	Flows in and out of study area
ST-140	Ephemeral	Flows in and out of study area
ST-141	Ephemeral	Flows in and out of study area
ST-142	Ephemeral	Flows into study area
ST-143	Ephemeral	Flows in and out of study area

Stream Name	Stream Duration	Flow Origination
ST-144	Ephemeral	Flows in and out of study area
ST-145	Ephemeral	Flows into study area
ST-146	Ephemeral	Flows into study area
ST-147	Ephemeral	Flows into study area
ST-148	Ephemeral	Flows into study area
ST-149	Ephemeral	Flows into study area
ST-150	Ephemeral	Flows into study area
ST-151	Ephemeral	Flows into study area
ST-152	Ephemeral	Originates and flows out of study area
ST-153	Ephemeral	Originates and flows out of study area
ST-154	Ephemeral	Originates and flows out of study area
ST-155	Ephemeral	Originates and flows out of study area
ST-156	Ephemeral	Originates and flows out of study area
ST-157	Ephemeral	Originates and flows out of study area
ST-158	Ephemeral	Originates and flows out of study area
ST-159	Ephemeral	Completely within study area
ST-160	Ephemeral	Originates and flows out of study area
ST-161	Ephemeral	Flows into study area
ST-162	Ephemeral	Flows into study area
ST-163	Ephemeral	Flows in and out of study area
ST-164	Ephemeral	Completely within study area
ST-165	Ephemeral	Flows into study area
ST-166	Ephemeral	Flows into study area
ST-167	Ephemeral	Flows into study area
ST-168	Ephemeral	Flows in and out of study area
ST-169	Ephemeral	Flows in and out of study area
ST-170	Ephemeral	Flows into study area
ST-171	Ephemeral	Flows in and out of study area
ST-172	Ephemeral	Flows in and out of study area
ST-173	Ephemeral	Flows into study area
ST-174	Ephemeral	Flows into study area
ST-175	Ephemeral	Flows into study area
ST-176	Ephemeral	Flows into study area
ST-177	Ephemeral	Flows into study area
ST-178	Ephemeral	Originates and flows out of study area
ST-179	Ephemeral	Flows into study area

Stream Name	Stream Duration	Flow Origination
ST-180	Ephemeral	Completely within study area
ST-181	Ephemeral	Completely within study area
ST-182	Ephemeral	Originates and flows out of study area
ST-183	Ephemeral	Completely within study area
ST-184	Ephemeral	Originates and flows out of study area
ST-185	Ephemeral	Originates and flows out of study area
ST-186	Ephemeral	Flows into study area
ST-187	Ephemeral	Flows in and out of study area
ST-188	Ephemeral	Flows into study area
ST-189	Ephemeral	Flows into study area
ST-190	Intermittent	Completely within study area
ST-191	Ephemeral	Flows into study area
ST-192	Ephemeral	Flows into study area
ST-193	Ephemeral	Flows into study area
ST-194	Ephemeral	Flows into study area
ST-195	Ephemeral	Flows into study area
ST-196	Ephemeral	Originates and flows out of study area
ST-197	Ephemeral	Flows into study area
ST-198	Ephemeral	Originates and flows in and out of study area
ST-199	Ephemeral	Flows into study area
ST-200	Ephemeral	Completely within study area
ST-201	Ephemeral	Flows into study area
ST-202	Ephemeral	Originates and flows out of study area
ST-203	Ephemeral	Flows in and out of study area
ST-204	Ephemeral	Originates and flows out of study area
ST-205	Ephemeral	Flows in and out of study area
ST-206	Ephemeral	Completely within study area
ST-207	Ephemeral	Originates and flows in and out of study area
ST-208	Ephemeral	Completely within study area
ST-209	Ephemeral	Flows into study area
ST-210	Ephemeral	Flows into study area
ST-211	Ephemeral	Flows into study area
ST-212	Ephemeral	Flows into study area
ST-213	Ephemeral	Flows into study area
ST-214	Ephemeral	Flows in and out of study area
ST-215	Ephemeral	Flows into study area

Stream Name	Stream Duration	Flow Origination
ST-216	Ephemeral	Flows in and out of study area
ST-217	Ephemeral	Flows in and out of study area
ST-218	Ephemeral	Flows into study area
ST-219	Ephemeral	Flows in and out of study area
ST-220	Ephemeral	Flows in and out of study area
ST-221	Ephemeral	Flows into study area
ST-222	Ephemeral	Flows into study area
ST-223	Ephemeral	Flows in and out of study area
ST-224	Ephemeral	Flows into study area
ST-225	Ephemeral	Flows into study area
ST-226	Ephemeral	Flows into study area
ST-227	Ephemeral	Completely within study area
ST-228	Ephemeral	Completely within study area
ST-229	Intermittent	Flows in and out of study area
ST-230	Ephemeral	Flows in and out of study area
ST-231	Ephemeral	Completely within study area
ST-232	Ephemeral	Flows into study area
ST-233	Ephemeral	Originates and flows out of study area
ST-234	Ephemeral	Completely within study area
ST-235	Ephemeral	Flows into study area
ST-1000	Ephemeral	Originates and flows out of study area
ST-1001	Ephemeral	Flows in and out of study area
ST-1002	Ephemeral	Originates and flows out of study area
ST-1003	Ephemeral	Originates and flows out of study area
ST-1004	Ephemeral	Originates and flows out of study area
ST-1005	Ephemeral	Originates and flows out of study area
ST-1006	Ephemeral	Originates and flows out of study area
ST-1007	Ephemeral	Originates and flows out of study area
ST-1008	Ephemeral	Originates and flows out of study area
ST-1009	Ephemeral	Completely within study area
ST-1010	Ephemeral	Originates and flows out of study area
ST-1011	Ephemeral	Flows in and out of study area



	Exhibit J: Wetlands and Other Jurisdictional Waters
Attachment L-2 Ioi	nt Dormit Application
Attachment j-2 jui	nt Permit Application
Wheatridge Renewable Energy Facility East	Request for Amendment to Site Certificate
0	1

Joint Permit Application

This is a joint application, and must be sent to all agencies (Corps, DSL, and DEQ). Alternative forms of permit applications may be acceptable; contact the Corps and DSL for more information.

Date Stamp



U.S. Army Corps of Engineers Portland District



Oregon
Department of
State Lands



Oregon
Department of
Environmental
Quality

Action ID Number Number						Quality
(1) TYPE OF PEI	RMIT(S) IF KNO	WN (check all tha	apply)		
Corps: Individual	Nationwide No.:	57 Regional	Gener	al Permit		Other (specify):
DSL: Individual]GP Trans ☐ GP I	Min Wet ☐ GP Ma	int Dre	edge 🔲 GP Oce	ean Ene	ergy
(2) APPLICANT	AND LANDOWN	ER CONTACT	NFO	RMATION		
	Applicant	Property	[,] Owne	er (if different)		orized Agent (if applicable) onsultant
Name (Required)	David Lawlor			ct property	Jess Ta	
Business Name	Wheatridge East W 700 Universe Blvd	ind, LLC owners in	Attaci	nment A.	Tetra T	ech Harbor Way
Mailing Address 1	Juno Beach, FL 33	408			Suite 4	
Mailing Address 2					Portlan	d, OR 97201
City, State, Zip						
Business Phone	(587) 956-0081				(509) 3	86-5036
Cell Phone	(403) 689-6285					
Fax						
Email	David.Lawlor@next	teraener			Jess.Ta	ylor1@tetratech.com
(3) PROJECT INFORMATION						
A. Provide the proje						
Project Name	ect location.			Latitude & Lor	naitude*	•
Wheatridge Renewab	ole Energy Facility Ea	st		4 5.495567, -11		
Project Address / Lo		City (nearest)				County
Rural Morrow and Ur		Pine City, Oregor				Morrow and Umatilla counties
Towns		•	ection	Quarter / Qu		Tax Lot
Please see Attachment B Wetland Delineation Report (WDR) for cadastral and tax lot information.						
Brief Directions to the Site:						
See attached WDR for locations of features, project is linear and directions are dependent on area of interest.						
B. What types of waterbodies or wetlands are present in your project area? (Check all that apply.)						
River / Stream		■ Non-Tidal We	tland			☐ Lake / Reservoir / Pond
☐ Estuary or Tidal	Wetland	Other				☐ Pacific Ocean
				Field HUC Nam per Sand Hollov		6th Field HUC (12 digits) 170701031101
See attached WDR		See attached WD	K ob	per Sariu Fioliov	v	170701031101

1 November 2021

^{*} In decimal format (e.g., 44.9399, -123.0283)

^{**} If there is no official name for the wetland or waterbody, create a unique name (such as "Wetland 1" or "Tributary A").

C. Indicate the project category. (Check all that apply.)				
☐ Commercial Development ☐ Industrial Development		☐ Residential Development		
☐ Institutional Development	☐ Agricultural	Recreational		
☐ Transportation	Restoration	☐Bridge		
☐ Dredging	Utility lines	☐ Survey or Sampling		
☐ In- or Over-Water Structure	Maintenance	Other: Wind turbines, substation, and Operations & Maintenance facility.		

(4) PROJECT DESCRIPTION

• Summarize the overall project including work in areas both in and outside of waters or wetlands. The proposed Wheatridge Renewable Energy Facility East (Project) a wind energy generation facility consisting of up to 106 turbines and related or supporting facilities with a peak generating capacity of up to 300 megawatts (MW), to be located in approximately 15,564 acres on over 79,424 acres of leased land in Morrow and Umatilla counties, Oregon.

The Project includes the following components:

- Up to 106 wind turbines,
- Project substation,
- 20 MW battery energy storage system,
 - Up to 31.5-mile overhead 230--kilovolt (kV) generation-tie transmission line,
- underground collector lines, and
- associated Project access roads (temporary and permanent).

The Project will interconnect at the existing Blue Ridge Substation in Morrow County.

Describe work within waters and wetlands.

The Project was able to microsite and avoid almost all wetlands and waters with the exception of the area near Spur Loop Road which has a hairpin turn and a narrow county road. The road needs to be widened in a couple of areas and a culvert will be installed in two places in a riverine wetland where it was impossible to avoid crossing. Culverts are expected to be 60 inches in diameter and constructed per the attached grading design set(Attachment C). Attachment C shows details of each impact and they are summarized below:

- Grading of roadbed associated with an existing culvert in WET-18(1)
- A 16-foot transmission line access road across ephemeral waterway (ST-113 in the attached WDR)
- A culvert in an ephemeral drainage (ST-72 in the attached WDR)
- Minor fill (29.9 cubic yards) in wetland WET-18(4) to expand access road
- Fill (242.2) at edge of wetland WET-18(3) to expand access road
- A culvert within wetland WET-18(2) to reduce impacts of access road crossing
- Minor fill (24.8 cubic yards) in ephemeral drainage (ST-196)

Construction Methods. Describe how the removal and/or fill activities will be accomplished to minimize impacts to waters and wetlands.

Impacts to wetlands and waters have been minimized throughout the project planning, design, and yet to be completed construction phases as described in this section.

Planning: The following design considerations were implemented to avoid and minimize impacts to wetlands and waters:

- The proposed locations of turbine pads and transmission towers were microsited, wherever possible, to avoid wetlands, waters and their buffers.
- Underground collector lines and access roads are to be routed around wetlands and waters that do not span the entire width of the right-of-way.
- To minimize new road construction, existing roads leading to proposed turbine locations have been used for construction and maintenance purposes to the extent practicable.
- To the extent practicable, necessary road widening will take place on the side of the road that does not have an adjacent jurisdictional wetland or other water.

Design: The following list includes construction methods and impact minimization measures for project activities that are expected to impact wetlands or waters:

- Collector lines: collector lines will span any waterways or wetlands with any poles installed outside
 of the buffers.
- Establishment of permanent access roads between wind turbines. Access roads will cross waterways/wetlands in three locations. It is expected that 60-inch culverts will be utilized to facilitate crossings. Heavy equipment (likely excavators or backhoes) will be used to install crossings over potentially jurisdictional features. Crossing sizes will be selected to maintain water conveyance for each feature and allow for movement of aquatic life, where present. Access roads will be constructed to the minimum width necessary.
- Establishment of temporary access roads for construction. Access roads will cross waterways and wetlands in three locations. It is expected that culverts will be utilized to facilitate crossings. Heavy equipment (likely excavators or backhoes) will be used to install crossings over potentially jurisdictional features.

Construction: The following measures will be implemented during construction to avoid impacts:

- Indirect impacts to wetlands and other waters will be avoided and minimized by employing Best Management Practices for erosion and sediment control required by the National Pollutant Discharge Elimination System permit required for the proposed Project, and the accompanying Erosion and Sediment Control Plan.
- The Certificate Holder will develop an environmental awareness course for the construction contractors that will provide information on the sensitive wetland and stream resources present onsite, the exclusion flagging/signing, permit requirements, and other environmental issues.
- Construction site personnel will be required to attend the environmental awareness course in conjunction with hazard and safety training prior to working on-site. The Certificate Holder's construction contractor will maintain a list of on-site construction personnel who have received the training

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