WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 28-Aug-15		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T335_01		
Investi	gator(s): JGK		Landform (hil	lside, terrac	ce, hummocks etc.): Bench		
Local	relief (concave, convex, none): hummocky		Slope: 3.5	% / 2.0	O ° Elevation:		
	gion : Interior Alaska Mountains	Lat	 t.:		Long.: Datum: WGS84		
	ap Unit Name:				NWI classification: PSS1/EM1B		
	matic/hydrologic conditions on the site typical for this	time of v	/ear? Yes	● No ○			
	/egetation, Soil, or Hydrology	•	antly disturbed?		Normal Circumstances" present? Yes No No		
	/egetation , Soil , or Hydrology	-	ly problematic?		eded, explain any answers in Remarks.)		
			•	`	,		
SUM	MARY OF FINDINGS - Attach site map sho		ampling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No		•	41			
	Hydric Soil Present? Yes ● No			s the Sampled Area vithin a Wetland? Yes ● No ○			
	Wetland Hydrology Present? Yes No	C	W	ithin a W	/etland? Yes © No C		
Rem	arks:						
VEGI	ETATION -Use scientific names of plants. L	ist all s	species in the	plot.			
		Absolu	ute Dominant	Indicator	Dominance Test worksheet:		
	e Stratum	% Co	ver Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)		
1.					Total Number of Dominant		
2.					Species Across All Strata:5(B)		
3.			_		Percent of dominant Species		
4.		- —	_		That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		- —			Prevalence Index worksheet:		
	Total Cove)		Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 50% of Total Cover:	02	20% of Total Cover:	:0	OBL Species x 1 =		
1.	Vaccinium uliginosum	3	3 0	FAC	FACW Species 20 x 2 = 40		
2.	Betula nana	1	.0	FAC	FAC Species 90 x 3 = 270		
3.	Empetrum nigrum		.0	FAC	FACU Species 0 x 4 = 0		
4.	Vaccinium vitis-idaea		5	FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.	Rhododendron tomentosum		5	FACW	Column Totals: <u>110</u> (A) <u>310</u> (B)		
6.			0		Prevalence Index = B/A =		
7.			0				
8.			0		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
			0		✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0		
10.	Total Cove		<u> </u>				
Hei	b Stratum 50% of Total Cover:		20% of Total Cover	r: <u>12</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii	3	S 5	FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Rubus chamaemorus		L5 🗸	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.		(0		be present, unless disturbed or problematic.		
			0		Plot size (radius, or length x width) 10m		
			0		Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes		
5.							
			0		(Where applicable)		
6.			0				
6. 7.		((Where applicable)		
6. 7. 8.			0 0 0 0		(Where applicable) % Bare Ground		
6. 7. 8. 9.			0 0 0 0 0		(Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic		
6. 7. 8. 9.		() () () () ()	0	: 10	(Where applicable) % Bare Ground Total Cover of Bryophytes _30		

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SOIL Sampling Point: SW15_T335_01

(inches) Color (moine) 0-2 2-9 9-12 5YR 12-19 1-Type: C=Concentration. D= Hydric Soil Indicators: ✓ Histosol or Histel (A1) ☐ Histic Epipedon (A2) ☐ Hydrogen Sulfide (A4) ☐ Thick Dark Surface (A12) ☐ Alaska Gleyed (A13) ☐ Alaska Gleyed (A13) ☐ Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: frozen Depth (inches): 19 Remarks: HYDROLOGY Wetland Hydrology Indica Primary Indicators (any one in a surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) Field Observations:	3/4 100	Indicators for Pro Alaska Color Cha Alaska Alpine sw Alaska Redox W	oblematic Hydric ange (TA4) ⁴ vales (TA5) (ith 2.5Y Hue hydrophytic veget e landscape positio	RC=Root Chanr c Soils:	Alaska Gleyed Without Hu Underlying Layer Other (Explain in Remark ry indicator of wetland h	s)
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YDROLOGY Vetland Hydrology Indica Primary Indicators (any one in the surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)						
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✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	s sufficient)					ned Leaves (B9)
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Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)		Marl Deposits	` '			f Reduced Iron (C4)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)		☐ Hydrogen Sulf			Salt Deposi	
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)		_ '	/ater Table (C2)			Stressed Plants (D1)
Iron Deposits (B5) Surface Soil Cracks (B6)		Other (Explain	n in Remarks)			c Position (D2)
Surface Soil Cracks (B6)					✓ Shallow Aq	` '
						raphic Relief (D4)
					✓ FAC-neutra	i Test (D5)
Surface Water Present?	Yes O No	Depth (inches)	-1.			
	165 O 110	\cap	•			
Water Table Present?	v 🕞 v	Dopen (menes	s): 11	Wetland	d Hydrology Presen	t? Yes • No O
Saturation Present? (includes capillary fringe)	Yes No	O Depth (inches	s): 2			
escribe Recorded Data (strea	Yes • No	or well, aerial photos, previ	ious inspection) if	available:		
	Yes No					
lemarks:	Yes No					
few small waterbodies 2-7 in	Yes No					

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