## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Proj	ect Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T126_10			
Investigator(s): SLI, SCB	l	Landform (hill	side, terrac	e, hummocks etc.): Hillside			
Local relief (concave, convex, none): concave		Slope:	%/ 11.2	2 ° Elevation: 790			
Subregion : Southcentral Alaska	Lat e	62.886013874		Long.: -149.388066266 Datum: NAD83			
Soil Map Unit Name:		52.000013074		-			
•			• No ()	NWI classification: Upland			
Are climatic/hydrologic conditions on the site typica Are Vegetation , Soil , or Hydrolog Are Vegetation , Soil , or Hydrolog SUMMARY OF FINDINGS - Attach site n	gy isignificantly gy inaturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	) No 🖲						
Hydric Soil Present? Yes	) No 🖲	Is the Sampled Area					
Wetland Hydrology Present? Yes		wi	thin a W	etland? Yes 🔾 No 🖲			
Remarks: slobe/sdobe on small crest.							
VEGETATION - Use scientific names of p	olants. List all spe Absolute % Cover	cies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1. Picea glauca	1		FACU	That are OBL, FACW, or FAC:3(A)			
2.	0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.	0						
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)			
5.	0						
Τ	otal Cover: 1			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total (	Cover: 0.5 20%	of Total Cover:	0.2	OBL Species $0 \times 1 = 0$			
				FACW Species $1 \times 2 = 2$			
1. Betula glandulosa	20	$\checkmark$	FAC	FAC Species <u>59.1</u> $x^2 = 2$			
2. Vaccinium uliginosum			FAC	FACU Species $6.1 \times 4 = 24.4$			
3. Empetrum nigrum     4. Arctous ruber	105		FAC FAC	UPL Species $0 \times 5 = 0$			
Arctous ruber     Spiraea stevenii			FACU				
6. Vaccinium vitis-idaea			FAC	Column Totals: <u>66.2</u> (A) <u>203.7</u> (B)			
7.	0			Prevalence Index = B/A = 3.077			
8.	0			Hydrophytic Vegetation Indicators:			
9.				✓ Dominance Test is > 50%			
10				$\square Prevalence Index is \leq 3.0$			
	otal Cover:56.1			Morphological Adaptations <sup>1</sup> (Provide supporting data in			
	Cover: <u>28.05</u> 20%	of Total Cover	: 11.22	Remarks or on a separate sheet)			
1. Anthoxanthum monticola ssp. alpinum	2	$\checkmark$	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2. Artemisia norvegica	2	$\checkmark$	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3. Festuca altaica	2	$\checkmark$	FAC	be present, unless disturbed or problematic.			
4. Pedicularis labradorica	1		FACW	Plot size (radius, or length x width)			
5. Carex bigelowii	1		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes			
6. Pedicularis lapponica	1		FAC	(Where applicable)			
7. Spinulum annotinum	0.1		FACU	% Bare Ground			
8	0			Total Cover of Bryophytes			
9							
10				Hydrophytic			
	otal Cover: <u>9.1</u>	of Total Carr	4.00	VegetationPresent?Yes $\bigcirc$ No $\bigcirc$			
50% of 10tal (	Cover: <u>4.55</u> 20%	or rotal cover:	1.82				
Remarks: abundant lichens including stereo, cl				nant tree species.			

Depth (inches)		Matrix			dox Featu		. 2	Texture	Remarks	
0-2	Color (m	oist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Sapric Organic		Reina KS
2-4		3/2	100					Silt Loam		
				·				<u>.</u>	w coarse sand-fir	
4-7	7.5YR	2.5/2	100					Loam	w coarse sand-fin	
7-12	10YR	4/3	100					Loam	w subang gravels	to cobbles
12-20	2.5Y	3/2	100					Loam		
								-	_	
			,							
									-	
<sup>1</sup> Type: C=Cond	centration. D	=Depletion.	. RM=Redu	iced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil In	dicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>			
Histosol or				Alaska Color Ch		4		] Alaska Gleyed Without H	lue 5Y or Redder	
Histic Epipedon (A2)			Alaska Alpine swales (TA5)				Underlying Layer			
Hydrogen S				Alaska Redox V	Nith 2.5Y F	lue		Other (Explain in Remar	ks)	
Thick Dark	Surface (A12	2)								
Alaska Gley	red (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland   esent	hydrology,	
Alaska Rede	ox (A14)						•			
Alaska Gley	ed Pores (A1	15)		<sup>4</sup> Give details of co			:S			
Restrictive Layer	r (if present)	:								
Type:								Hydric Soil Present	t? Yes 🔿	No 🖲
Depth (inche	es):									
no hydric soil inc										
HYDROLOG	GY									
Wetland Hydro										ore are required)
Primary Indicat		is sufficient	:)						ined Leaves (B9)	
Surface Wa				Inundation V		-			Patterns (B10)	
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					-	ig Living Roots (C3)
Saturation (A3) Marl Deposits (B15)							Salt Depo	of Reduced Iron ( sits (C5)	(C4)	
Water Marks (B1)     Hydrogen Sulfide Odor (C1)       Sediment Deposits (B2)     Dry General Water Table (C2)								r Stressed Plants	(D1)	
								nic Position (D2)	(01)	
_	or Crust (B4)				III III Kema	1857			quitard (D3)	
Iron Depos									graphic Relief (D	4)
	il Cracks (B6	)						_	al Test (D5)	· /
Field Observat		,							• •	
Surface Water		Yes $\mathbb{C}$	No 🖲	Depth (inche	es):					
	resent?	Yes $\mathbb C$	No 🖲	Depth (inche	·s):		Wetla	nd Hydrology Preser	nt? Yes $\bigcirc$	No 🖲
Water Table Pr								•		
Water Table Pr Saturation Pres (includes capilla		$_{\sf Yes}$ $\bigcirc$	No 🖲	Depth (inche	s):					
Saturation Pres (includes capill	ary fringe)			Depth (inche rell, aerial photos, prev		ction) if ava	ailable:			

no wetland hydrology indicators