## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T107_06		
nvestic	gator(s): SLI, SCB		Landform (hill:	side, terrac	e, hummocks etc.): Hillside		
-	elief (concave, convex, none): hummocky		Slope:	%/ 7.5			
		Lat:	•				
-	ion : Interior Alaska Mountains	Lal	62.863427758	•			
	p Unit Name:				NWI classification: PSS1/4B		
Are V Are V	egetation, Soil, or Hydrologyr	significantly naturally pr ving sam	y disturbed? roblematic?	Are "N (If nee	<ul> <li>(If no, explain in Remarks.)</li> <li>ormal Circumstances" present? Yes ● No ○</li> <li>ded, explain any answers in Remarks.)</li> <li>s, transects, important features, etc.</li> </ul>		
	Hydrophytic Vegetation Present? Yes $ullet$ No $igcar{}$	1	la la	the Com	wlad Area		
	Hydric Soil Present? Yes ● No C	1		the Sam	/etland? Yes  No		
	Wetland Hydrology Present? Yes 💿 No C		WI	thin a W			
Rema	irks: northern aspect picmar wetland.						
	TATION - Use scientific names of plants. Li	st all spe Absolute % Cover	Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species		
	Picea mariana	10		FACW	That are OBL, FACW, or FAC:6(A)		
2.		0			Total Number of Dominant		
3.		0			Species Across All Strata:6(B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0					
	Total Cover:				Prevalence Index worksheet:		
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	2	Total % Cover of: Multiply by:		
Jup				<u>.</u>	OBL Species $0$ x 1 = $0$		
	Vaccinium uliginosum	25		FAC	FACW Species $41$ x 2 = 82		
	Picea mariana	20		FACW	FAC Species $50.1 \times 3 = 150.3$		
3.	Vaccinium vitis-idaea	15		FAC	FACU Species 1 $x 4 = 4$		
4.	Rhododendron tomentosum			FACW	UPL Species x 5 =		
	Empetrum nigrum			FAC	Column Totals: <u>92.1</u> (A) <u>236.3</u> (B)		
	Salix pulchra			FACW	Prevalence Index = B/A =2.566		
	Spiraea stevenii			FACU			
8.		0			Hydrophytic Vegetation Indicators:		
		0			Dominance Test is > 50%		
10.					✓ Prevalence Index is $\leq 3.0$		
Herl	Total Cover:			: 14.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii	5	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Petasites frigidus	3		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Rubus chamaemorus	1		FACW	be present, unless disturbed or problematic.		
4.	Equisetum sylvaticum	0.1		FAC	Plot size (radius, or length x width)		
		0			% Cover of Wetland Bryophytes		
		0			(Where applicable)		
		0			% Bare Ground		
					Total Cover of Bryophytes 80		
9.							
10.		0			Hydrophytic		
		-	of Total Carr	4.00	Vegetation Present? Yes O No O		
	50% of Total Cover:	.55 20%	or rotal Cover:	1.82			
Rema	arks:						

		e depth nee <b>atrix</b>	ded to docun	nent the indicator or con <b>Rec</b>	nfirm the ab		cators)				
Depth (inches)	Color (mois		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-12	COIOI (IIIOIS	<u>.</u>	-70			Туре	LUC	Fibric Organic			
			,								
	·										
								p			
<sup>1</sup> Type: C=Cond	centration. D=D	epletion. F	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil In	dicatore			Indicators for Pr	ohlemati	c Hydric S	oils <sup>3</sup>				
Hydric Soil In				Alaska Color Cl		4	·oiis.				
Histosol or I	. ,					,		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
Histic Epipe				Alaska Alpine s	-			Other (Explain in Remarl	(5)		
Hydrogen S	. ,				wiui 2.51 i	lue					
	Surface (A12)			<sup>3</sup> One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	nydrology,		
Alaska Gley				and an appropriat					,		
Alaska Redo				<sup>4</sup> Give details of co	olor chang	e in Remar	ks				
Alaska Gley	ed Pores (A15)				j						
Restrictive Layer	(if present):										
Type: froze	n							Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inche	es): 12										
Remarks:											
frozen soils w segregated ice.											
	5 5										
HYDROLOG	θY										
Wetland Hydro	ology Indicate	ors:						Secondary Indi	cators (two or more are required)		
Primary Indicato	ors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
Surface Wa	ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	Drainage F	Patterns (B10)		
High Water	Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ice (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	(A3)			Marl Deposite	s (B15)			Presence o	of Reduced Iron (C4)		
Water Mark	<s (b1)<="" td=""><td></td><td></td><td>🗌 Hydrogen Su</td><td>lfide Odor</td><td>(C1)</td><td></td><td>Salt Depos</td><td>its (C5)</td></s>			🗌 Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)		
Sediment D	Deposits (B2)			Dry-Season \	Nater Tabl	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Depos	sits (B3)			Other (Explai	in in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat o	r Crust (B4)							✓ Shallow Ac	quitard (D3)		
Iron Depos	its (B5)							Microtopog	graphic Relief (D4)		
Surface Soi	il Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observat	tions:	-	_								
Surface Water	Present?	$_{Yes}$ $\bigcirc$	No 🖲	Depth (inche	es):						
Water Table Pr	esent?	Yes $\bigcirc$	No 🖲	Depth (inche	s):		Wetlaı	nd Hydrology Presen	t?Yes 🖲 No 🔾		
Saturation Pres		$\sim$			,						
(includes capilla		Yes $\bigcirc$	NO 🛡	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
organics moist but not saturated.											