## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Denali Bo	orough Sampling Date: 08-Aug-13				
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T169_06				
	gator(s): BAB	_andform (hill	side, terrac	ce, hummocks etc.): drainage					
-	elief (concave, convex, none): hummocky		Slope: 5.2		° Elevation: 723				
	ion: Interior Alaska Mountains								
		Lat							
	p Unit Name:		,	No ○	NWI classification: PSS1B				
Are V Are V	egetation  , Soil , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes No Ceded, explain any answers in Remarks.)  s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes  No  Hydric Soil Present? Yes  No  No  No  No  No  No  No  No  No  No		Is	s the Sampled Area					
	O C		wi	within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes   No C	)							
	arks: small perrenial stream running through drainag  TATION -Use scientific names of plants. Li	ist all spe	cies in the	plot.	Dominance Test worksheet:				
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species				
	Picea glauca	8	<b>✓</b>	FACU	That are OBL, FACW, or FAC:				
2.		0			Total Number of Dominant Species Across All Strata: 7 (B)				
3.									
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cover	8			Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	of Total Cover:	1.6	OBL Species 10 x 1 = 10					
1	Saliy pulahra	20	<b>~</b>	FACW	FACW Species 25.1 x 2 = 50.20				
2.	Salix pulchra			FAC	FAC Species 69 x 3 = 207				
3.	Vaccinium uliginosum  Dasiphora fruticosa	15	<u>✓</u>	FAC	FACU Species 9 x 4 = 36				
4.	Salix barclayi	5		FAC	UPL Species 0 x 5 = 0				
5.	Betula nana	20	<b>~</b>	FAC					
6.	Salix reticulata	1		FAC	Column Totals:113.1 (A)303.2 (B)				
7.	Canx retionata	0	$\Box$	1710	Prevalence Index = B/A = 2.681				
8.		0			Hydrophytic Vegetation Indicators:				
9.		0			Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
	Total Cover b Stratum 50% of Total Cover:		of Total Cover	14.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Calamagrostis canadensis	7	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	Equisetum arvense	8	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	Petasites frigidus	1		FACW	be present, unless disturbed or problematic.				
4.	Carex aquatilis		✓	OBL	Plot size (radius, or length x width) 10m				
5.	Rumex arcticus	````		FAC	Plot size (radius, or length x width)				
6.	Comarum palustre	4		OBL	(Where applicable)				
7.	Swertia perennis			FACW	% Bare Ground				
8.	Sedum rosea	1		FAC	Total Cover of Bryophytes <u>35</u>				
9.	Cornus canadensis	1		FACU					
10.	Rubus chamaemorus	4		FACW	Hydrophytic				
	<b>Total Cover</b> 50% of Total Cover: <u>1</u>		of Total Cover	6.82	Vegetation Present? Yes ● No ○				
Rem	arks:								

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13\_T169\_06

Profile Descript	ion: (Describe to	the depth ne	eded to docum	ent the indicator or co	nfirm the ab	sence of indic	ators)	· -	10mc. 5W15_1165_66			
Depth		Matrix			dox Feat			-				
(inches)	Color (me	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-7			100					Fibric Organics				
7-11			100					Hemic Organics				
11-13	10YR	2/1	100					Sandy Loam	ang to semi ang gravel			
-					-			-				
1				2					-			
Type: C=Coi	ncentration. D	=Depletion.		d Matrix <sup>2</sup> Location				innel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr		4	oils:³					
	r Histel (A1)			Alaska Color Cl		-		Alaska Gleyed Without Hue 5Y or Redder				
	pedon (A2)			Alaska Alpine s	•	•		Underlying Layer  Other (Explain in Remarks)				
l — · · ·	Sulfide (A4)			☐ Alaska Redox V	With 2.5Y	Hue		Otner (Explain in Remark	(5)			
l —	k Surface (A12	2)		<sup>3</sup> One indicator of	hvdrophv	tic vegetatio	n, one prim	nary indicator of wetland h	vdrology.			
Alaska Gle				and an appropriat					7			
Alaska Red	, ,	(F)		4 Give details of co	olor chang	e in Remark	S					
	eyed Pores (A1											
Restrictive Laye	er (if present):	:										
Type:	hoc):							Hydric Soil Present	? Yes ● No O			
Depth (incl	ies):											
Remarks:												
HYDROLO	GY											
Wetland Hyd	rology Indica	ators:						Secondary India	cators (two or more are required)			
Primary Indica	ntors (any one	is sufficient	)					Water Stained Leaves (B9)				
Surface V	Surface Water (A1)			Inundation Visible on Aerial Imagery (B7)				✓ Drainage Patterns (B10)				
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)				Presence o	f Reduced Iron (C4)			
Water Ma	ırks (B1)			✓ Hydrogen Su	lfide Odor	(C1)		☐ Salt Depos	its (C5)			
	Deposits (B2)	)		Dry-Season \	Nater Tab	le (C2)			Stressed Plants (D1)			
Drift Depo				Other (Expla	in in Rema	ırks)		✓ Geomorphi	` '			
	or Crust (B4)							_	uitard (D3)			
Iron Depo								_	raphic Relief (D4)			
	oil Cracks (B6)	)					1	✓ FAC-neutra	l Test (D5)			
Field Observa		V (	N - (a)									
Surface Wate	r Present?		No 💿	Depth (inche	es):							
Water Table F		Yes 🕑	No 🔾	Depth (inche	es): 11		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾			
Saturation Pro (includes capi		Yes 💿	No O	Depth (inche	es): 7							
		eam gauge.	monitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:					
2000.1201.000.	uou zutu (ott	cam gaage,		, acriai priocos, pro		300.01.) 0.70						
Remarks:												
small r2 strean	n running thro	ugh plot. lo	oks as though	n the stream moves	around a	bit.						

U.S. Army Corps of Engineers Alaska Version 2.0