## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	//Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 02-Aug-13			
Applica	ant/Owner: Alaska Energy Authority			Sampling Point: SW13_T204_03				
	gator(s): CTS, AMD	Landform (hil	lside, terrac	e, hummocks etc.): Flat				
Local	relief (concave, convex, none): flat		Slope:	% / 1.9	9 ° Elevation: 734			
Subred	gion : Interior Alaska Mountains	Lat ·	63.384207487		Long.: -148.630525352 Datum: NAD83			
	p Unit Name:	Lat	03.30420740					
			o V	No ○	NWI classification: Upland			
Are \		significant naturally p	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  Iormal Circumstances Present? Yes ● No ○  eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes ● No C	)						
	Hydric Soil Present? Yes ○ No ●	)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No •		within a Wetland? Yes ○ No ●					
Rema								
	ETATION - Use scientific names of plants. Li	st all spo	Dominant	•	Dominance Test worksheet:  Number of Dominant Species			
	Picca glauca	20	<u> </u>	FACU	That are OBL, FACW, or FAC: 5 (A)			
2.			. 🖳		Total Number of Dominant			
3.			. Н		Species Across All Strata: 8 (B)			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 62,5% (A/B)			
5.		0						
	Total Covers	20	_		Prevalence Index worksheet:  Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	10 20%	6 of Total Cover	: 4	OBL Species $0 \times 1 = 0$			
		25	<b>~</b>	FAC	FACW Species 15 x 2 = 30			
	Betula nana	35 25		FAC FAC	FAC Species 84 x 3 = 252			
2. 3.	Empetrum nigrum Vaccinium uliqinosum	20	- <b>V</b>	FAC	FACU Species 24.1 x 4 = 96.40			
4.	Rhododendron tomentosum	15		FACW	UPL Species 0 x 5 = 0			
5.	Vaccinium vitis-idaea	2	· П	FAC				
6.			·		Column Totals: <u>123.1</u> (A) <u>378.4</u> (B)			
7.		0			Prevalence Index = B/A = 3.074			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
	Total Cover: 50% of Total Cover:			r: 19.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus canadensis	3	✓	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Festuca altaica	-	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Bistorta plumosa	- 1	<b>✓</b>	FACU	be present, unless disturbed or problematic.			
4.	Carex bigelowii	1		FAC	Plot size (radius, or length x width)			
5.	Anthoxanthum monticola ssp. alpinum		. 📙	UPL	% Cover of Wetland Bryophytes			
6.			. 📙		(Where applicable)			
					% Bare Ground5			
					Total Cover of Bryophytes40			
			. 📙					
10.	Total Cover		. $\Box$		Hydrophytic			
1	Total Cover:		•		Vegetation Present? Yes ● No ○			
	50% of Total Cover:	3.05 20%	6 of Total Cover	1.22	Fresent: ICS © NO ©			

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SOIL Sampling Point: SW13\_T204\_03

Profile Descript	ion: (Describe to	the denth n	eeded to doci	iment the indicator or coi	nfirm the al	sence of indic	ators)				
		Matrix	ecucu to acct		lox Feat		attors				
Depth (inches)	Color (mo	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7	5YR	2.5/2	100					Sandy Loam			
7-12	10YR	4/3	100					Silt Loam			
12-14	10YR	4/2	100					Silt Loam			
14-20	2.5Y	4/2	100					Sandy Loam			
1120	2.51	1/2	100								
<sup>1</sup> Type: C=Cor	ncentration. D	=Depletion	. RM=Redu	ced Matrix <sup>2</sup> Location	ı: PL=Poı	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: <sup>3</sup>				
	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	` ,			Alaska Alpine s	wales (TA	.5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remarks	5)		
☐ Thick Dark	Surface (A12	)									
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland hy	drology,		
Alaska Red	dox (A14)						•	COCIT			
Alaska Gle	yed Pores (A1	5)		4 Give details of co	olor chang	je in Remark	S				
Restrictive Laye	er (if present):										
Type:	( ) ,							Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes):							,	1.0		
Remarks:											
no hydric soil ir	ndicators										
The frydric son in	idicators										
HYDROLO											
Wetland Hyd									ators (two or more are required)		
Primary Indica		is sufficien	t)						ed Leaves (B9)		
Surface W				Inundation V		_			atterns (B10)		
	er Table (A2)			Sparsely Veg		ncave Surfac	e (B8)		izospheres along Living Roots (C3)		
Saturation				Marl Deposits	. ,				Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				☐ Salt Deposit			
	Deposits (B2)			☐ Dry-Season V		. ,			Stressed Plants (D1)		
☐ Drift Depo				U Other (Explai	n in Rema	arks)			Position (D2)		
	or Crust (B4)							☐ Shallow Aqu			
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutral	Test (D5)		
Field Observa		V (	N - (a)								
Surface Water	r Present?		No 💿	Depth (inche	s):						
Water Table F	resent?	Yes	No ●	Depth (inche	s):		Wetlar	nd Hydrology Present	? Yes O No 💿		
Saturation Pre (includes capi		Yes C	No •	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	drology indicat	ors									

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