WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: [Denali Borough	Sampling Date:	08-Aug-13
Applicant/Owner: Alaska Energy Authority		Samplii	ng Point: S	W13_T170_09
Investigator(s): WAD, RWM	Landform (hillsig	de, terrace, hummocks etc.):	Toeslope	
Local relief (concave, convex, none):concave	Slope:	% /9.9 ° Elevation:651		
Subregion : Interior Alaska Mountains Lat .:	63.4300655132	Long.: -148.629087	'449 E	Datum: NAD83
Soil Map Unit Name:		NWI classi	fication: Uplan	d
	ar? Yes ntly disturbed? problematic?	No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ	present? Yes	
				. 1 .

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖲	No O	
Hydric Soil Present?	$Yes \bigcirc$	No 🖲	Is the Sampled Area
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland? Yes \bigcirc No \bigcirc
Remarks:			

VEGETATION - Use scientific names of plants. List all species in the plot.

			olute	•	Indicator	Dominance Test worksheet:
Tree	e Stratum		Cover	Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: (A)
2.		-	0			Total Number of Dominant Species Across All Strata: 4 (B)
3.		-	0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.			0			Prevalence Index worksheet:
	Total Cover	: _	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
1.	Picea glauca		3		FACU	FACW Species $30 \times 2 = 60$
2.	Betula nana	-	45	\checkmark	FAC	FAC Species <u>105</u> x 3 = <u>315</u>
3.	Rhododendron tomentosum		10		FACW	FACU Species 8 x 4 = 32
4.	Vaccinium vitis-idaea	-	5		FAC	UPL Species x 5 =
5.	Vaccinium uliginosum		35	\checkmark	FAC	Column Totals: 143 (A) 407 (B)
6.	Salix pulchra		5		FACW	
7.	Empetrum nigrum	-	5		FAC	Prevalence Index = B/A = <u>2.846</u>
8.		-	0			Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is ≤3.0
	Total Cover		108			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	54	_ 20%	of Total Cover:	21.6	Remarks or on a separate sheet)
1.	Carex bigelowii	_	15	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Bistorta plumosa	_	5		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Petasites frigidus	_	10	\checkmark	FACW	be present, unless disturbed or problematic.
4.	Rubus chamaemorus	_	5		FACW	Plot size (radius, or length x width) <u>10m</u>
5.		-	0			% Cover of Wetland Bryophytes
6.		-	0			(Where applicable)
7.		-	0			% Bare Ground
8.		-	0			Total Cover of Bryophytes40
			0			
			0			Hydrophytic
	Total Cover	• _	35			Vegetation
	50% of Total Cover:	17.5	20%	of Total Cover:	7	Present? Yes No
Rem	arks: moss is sphagnum.					

Depth (inches) Color (Matrix		nent the indicator or co Rec	lox Featu		ators)	_	
- 5101 (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6		100					Fibric Organics	Fibric Organics
6-14 10YR	4/1	100					Silt Loam	with very coarse sand
				-				
								-
¹ Type: C=Concentration.	 D=Depletion	RM=Reduce	ed Matrix ² Location	. PI =Pore	Lining RC	=Root Cha	nnel M=Matrix	
	D-Depiction		Indicators for Pr		-			
Hydric Soil Indicators:			Alaska Color Ch		4	, iis: 		
Histosol or Histel (A1)				•			Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s	•			Other (Explain in Remark	(5)
Hydrogen Sulfide (A4)				VIUI 2.51 FI	ue			
Thick Dark Surface (A	12)		³ One indicator of	hydrophyti	c vegetatio	n, one prin	nary indicator of wetland h	ydrology,
Alaska Gleyed (A13)			and an appropriat	e landscap	e position r	nust be pre	esent	
Alaska Redox (A14)	A 1 F \		⁴ Give details of co	olor change	in Remark	s		
Alaska Gleyed Pores (A	415)			5				
Restrictive Layer (if presen	t):							\sim
Type: seasonal frost ,	ice rich						Hydric Soil Present	? Yes 🔿 No 🖲
Depth (inches): 14								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indi	icators:						_Secondary Indi	cators (two or more are required)
		t)						cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Ind		t)	Inundation V	isible on Ae	rial Imager	у (В7)	Water Stai	
Wetland Hydrology Ind	ne is sufficien	t)	Inundation V Sparsely Veg				Water Stai	ned Leaves (B9)
Wetland Hydrology Indi Primary Indicators (any or Surface Water (A1)	ne is sufficien	t)	Sparsely Veg	etated Con 6 (B15)	cave Surfac		Water Stai	ned Leaves (B9) Patterns (B10)
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