WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling) Date: 30-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T156_04
Investigator(s): BAB	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): hummocky	Slope: 8.7	% / <u>5.0</u> ° Elevation: <u>1026</u>	
Subregion : Interior Alaska Mountains Lat.:	63.291743975	1 Long.: -148.37128887	Datum: WGS84
Soil Map Unit Name:		NWI classification:	PSS1B
	ar? Yes the start of the second secon	No (If no, explain in Remarks Are "Normal Circumstances" present? (If needed, explain any answers in Remarks)	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, important fea	tures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc
Remarks: toeslope willows small wet m	leadow nea	rby		

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

			۸hc	olute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum			over	Species?	Status	Number of Dominant Species	
1.				0			That are OBL, FACW, or FAC: (A)	
2.				0			Total Number of Dominant	
3.				-			Species Across All Strata:(B)	
				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)	
4.				0			That Are OBL, FACW, or FAC:(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 x 1 =	
1.	Salix pulchra			65	\checkmark	FACW	FACW Species 82 x 2 = 164	
2.	Salix reticulata			30	\checkmark	FAC	FAC Species 81 x 3 = 243	
3.	Vaccinium uliginosum			5		FAC	FACU Species <u>3</u> x 4 = <u>12</u>	
4.	Salix baralavi			5		FAC	UPL Species <u>1</u> x 5 = <u>5</u>	
5.				0			Column Totals: 168 (A) 425 (B))
6.				0				
				0			Prevalence Index = B/A = <u>2.530</u>	
				0			Hydrophytic Vegetation Indicators:	
				0			✓ Dominance Test is > 50%	
				0			✓ Prevalence Index is ≤3.0	
		Total Cover		105			Morphological Adaptations ¹ (Provide supporting data in	
Her	b Stratum	50% of Total Cover:	52.5	_ 20%	of Total Cover:	21	Remarks or on a separate sheet)	
1.	Equisetum arvense			40	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Swertia perennis			10		FACW	¹ Indicators of hydric soil and wetland hydrology must	
3.	Sanguisorba canadensis			5		FACW	be present, unless disturbed or problematic.	
4.	Chamerion angustifolium			3		FACU	Diet size (vadius, ex length y width)	
5.	Rubus chamaemorus			2		FACW	Plot size (radius, or length x width) <u>10m</u>	
6.	Polemonium boreale			1		UPL	% Cover of Wetland Bryophytes (Where applicable)	
7.	Calamagrostis canadensis			1		FAC	% Bare Ground	
8.	Carex aquatilis			1		OBL	Total Cover of Bryophytes 25	
9.	Democrie nelvetrie			0.1		FACW		
10.	Bistorta vivipara			0.1		FAC	Hydrophytic	
Total Cover:				63.2			Vegetation	
50% of Total Cover: <u>31.6</u> 20% of Total Cover: <u>12.64</u>						Present? Yes No		
Rem	arks: cornus suecica 4%							

SOIL

Depth	Matrix		Re	dox Featu	ires		-	
(inches) Color (mo	ist)	%	Color (moist)	%	Type ¹	 2	Texture	Remarks
0-4		100					Fibric Organics	
4-14		100					Hemic Organics	
14-27		100					Sapric Organics	-
								-
p p			,					_
			,					
Type: C=Concentration. D=	Depletion, I	RM=Reduc	ed Matrix ² Locatio	n: PL=Por	e Linina. RC	=Root Cha	nnel. M=Matrix	
ydric Soil Indicators:			Indicators for Pi		-			
Histosol or Histel (A1)			Alaska Color C		4] Alaska Gleyed Without H	tue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine				Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remar	·ks)
Thick Dark Surface (A12))		_					
Alaska Gleyed (A13)			³ One indicator of and an appropria				nary indicator of wetland	hydrology,
Alaska Redox (A14)					-		esent	
Alaska Gleyed Pores (A15	5)		⁴ Give details of c	olor chang	e in Remark	S		
estrictive Layer (if present):								
Туре:							Hydric Soil Presen	t? Yes 🖲 No 🔾
Type: Depth (inches): emarks:							Hydric Soil Presen	t? Yes 🖲 No 🔾
Depth (inches):							Hydric Soil Presen	t? Yes 🖲 No 🔾
Depth (inches): emarks:							Hydric Soil Presen	t? Yes • No O
Perth (inches): Permarks: YDROLOGY	tors:						-	t? Yes No
Depth (inches): marks: /DROLOGY etland Hydrology Indica								licators (two or more are required) ined Leaves (B9)
Copeth (inches): Copet			Inundation V		5	, , ,	Secondary Ind	licators (two or more are required) ined Leaves (B9) Patterns (B10)
Territory Indicators (any one i Surface Water (A1) High Water Table (A2)			Sparsely Veg	jetated Co	5	, , ,	Secondary Ind Water Sta Drainage Oxidized I	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3
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