## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 08-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T101_08
Investi	gator(s): WAD, BAB	ı	Landform (hill	side, terrac	ce, hummocks etc.): palsa
Local r	relief (concave, convex, none): convex		Slope: 8.7	% / 5.0	O ° Elevation: 850
Subrec	gion : Copper River Basin	Lat: 6	 32.666393518		Long.: -147.463606596 Datum: WGS84
	p Unit Name:		J2.000000001	,	NWI classification: Upland
		ima af vaar	) Voc	● No ○	
Are V		significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No Wes N		Is	the Sam	pled Area
	· · · · · · · · · · · · · · · · · · ·		w	ithin a W	/etland? Yes ○ No ●
	photo time 1603 photo num 1131-1133  ETATION - Use scientific names of plants. L	ist all sne	cies in the	nlot	
	Transit Ose scientific flames of plants. E	ist an spc	cics in the	piot.	Dominance Test worksheet:
Tro	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	e Stratum	0		<u> </u>	That are OBL, FACW, or FAC:3(A)
2.		0			Total Number of Dominant
3.		- 0			Species Across All Strata: 3 (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Possession of Today was also be at
	Total Cover	:			Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species $0.1 \times 1 = 0.1$
1	Lodum documbons	30	<b>✓</b>	FACW	FACW Species 43 x 2 = 86
1. 2.	Ledum decumbens  Betula nana		<b>▼</b>	FACV	FAC Species 34 x 3 = 102
3.	Spiraea stevenii	20		FACU	FACU Species 2 x 4 = 8
4.	Vaccinium uliginosum	8		FAC	UPL Species 0 x 5 = 0
5.	Picea mariana	10		FACW	
6.	Empetrum nigrum	5		FAC	Column Totals: <u>79.1</u> (A) <u>196.1</u> (B)
7.	Vaccinium vitis-idaea	1		FAC	Prevalence Index = B/A = 2.479
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
		0			✓ Prevalence Index is ≤3.0
	Total Cover  b Stratum 50% of Total Cover:		of Total Cove	: 15.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Eriophorum angustifolium	0.1		OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Rubus chamaemorus	3	<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.		0			be present, unless disturbed or problematic.
4.					Plot size (radius, or length x width) 10m
5.					% Cover of Wetland Bryophytes
		_			(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes5
10.	Total Cover				Hydrophytic Vegetation
	50% of Total Cover:		of Total Cover	0.62	Present? Yes   No

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SOIL Sampling Point: SW13\_T101\_08

Depth —	Matrix		Re					
(inches) Color (m	oist)	<u>%</u> (	Color (moist)	<u>%</u>	Type <sup>1</sup>	_Loc_ <sup>2</sup>	Texture	Remarks
0-6							Fibric Organics	
6-8							Hemic Organics	
8-10							Sapric Organics	
						-		
Type: C=Concentration. D	=Depletion. F	RM=Reduced	Matrix <sup>2</sup> Locatio	on: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
lydric Soil Indicators:		]	Indicators for P	roblematic	c Hydric So	oils:		
Histosol or Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine	swales (TA5	5)		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	s)
Thick Dark Surface (A1	2)							
Alaska Gleyed (A13)			One indicator o and an appropria				nary indicator of wetland h	ydrology,
Alaska Redox (A14)					·	•		
Alaska Gleyed Pores (A	15)		<sup>4</sup> Give details of o	color change	e in Remark	(S		
estrictive Layer (if present)	:							
							Hydric Soil Present	? Yes ○ No •
Type: ice rich frost								
Type: ice rich frost Depth (inches): 10 emarks: robably enough organics fo	r histosol but	not saturated						
Depth (inches): 10 emarks:	r histosol but	not saturate	d					
Depth (inches): 10 emarks: robably enough organics fo		not saturate	d					
Depth (inches): 10 emarks: robably enough organics fo  YDROLOGY Vetland Hydrology India	ators:	not saturate	d					cators (two or more are required)
Depth (inches): 10 emarks: robably enough organics for  YDROLOGY Vetland Hydrology Indic	ators:	not saturate					Water Stair	ned Leaves (B9)
Depth (inches): 10 emarks: robably enough organics for  YDROLOGY Vetland Hydrology Indic Primary Indicators (any one  Surface Water (A1)	ators:	not saturate	Inundation \		_		Water Stain Drainage P	ned Leaves (B9) Patterns (B10)
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