## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T107_03
	gator(s): SLI, SCB		Landform (hill	side, terrac	e, hummocks etc.): Lowland
-	elief (concave, convex, none): flat		Slope:	% / 2.9	
	ion: Interior Alaska Mountains	l at ·	62 061005705		
_		Lat	02.001000700	00	
	p Unit Name:		- \	<u> </u>	
	matic/hydrologic conditions on the site typical for this	-			
			•		omai oriodinotanoso prosont.
Are V	egetation ☐ , Soil ☐ , or Hydrology ☐	naturally pi	roblematic?	(If nee	ded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map she	owing san	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No	$\overline{\bigcirc}$			
	· · · · ·	0	Is	the Sam	
	,	_	wi	thin a W	etland? Yes ● No ○
	, , ,		rgents in CIR i	magery. na	rrow band of hgwsl to NW, just before elevation gain to
VEGE	TATION - Use scientific names of plants	r Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes No respect			
VLGL	TATION - Ose scientific flames of plants.				Dominance Test worksheet:
Tree	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species
1.	- Del dela la l	0			That are OBL, FACW, or FAC:3 (A)
2.					Total Number of Dominant Species Across All Strata: 3 (B)
3.					
4.					Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cove	er: <u>0</u>			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 27.1 x 1 = 27.1
1	Betula nana	20	<b>✓</b>	FAC	FACW Species 12.1 x 2 = 24.20
	Varatationa officiaración		<b>✓</b>	FAC	FAC Species 31.2 x 3 = 93.60
3.	Rhododendron tomentosum			FACW	FACU Species 0 x 4 = 0
4.	Picea mariana	2		FACW	UPL Species 0 x 5 = 0
5.	Salix fuscescens			FACW	Column Totals: 70.4 (A) 144.9 (B)
6.	Empetrum nigrum			FAC	
7.	-	0.1			Prevalence Index = B/A = 2.058
8.	Salix pulchra	0.1		FACW	Hydrophytic Vegetation Indicators:
9.	Vaccinium oxycoccos	0.1		OBL	✓ Dominance Test is > 50%
10.	Vaccinium vitis-idaea	0.1		FAC	✓ Prevalence Index is ≤3.0
	Total Cove				☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	<b>b Stratum</b> 50% of Total Cover:	20.2 20%	% of Total Cover	8.08	Remarks or on a separate sheet)
1.	Carex aquatilis	25	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Rubus chamaemorus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Carex pluriflora			OBL	be present, unless disturbed or problematic.
'	Eriophorum russeolum	-		FACW	Plot size (radius, or length x width)
5.	Carex magellanica			OBL	% Cover of Wetland Bryophytes
6.	Pedicularis lapponica			FAC	(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
		$ \frac{0}{0}$			
10.	Total Cove				Hydrophytic Vegetation
	50% of Total Cover:		of Total Cover:	6.02	Present? Yes   No
Darr					
Keili	arks: bare ground =water				

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SOIL Sampling Point: SW13\_T107\_03

Depth	Matr	i <b>x</b>	ument the indicator or co	dox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks
0-5							Hemic Organic	_
5-16							Fibric Organic	
							-	_
								-
								-
								_
								_
							-	
								_
<sup>1</sup> Type: C=Con	centration. D=Dep	etion. RM=Redu	ıced Matrix <sup>2</sup> Locatio	n: PL=Pore	Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil Ir	ndicators:		Indicators for P	roblematic	Hydric So	oils: <sup>3</sup>		
✓ Histosol or	Histel (A1)		Alaska Color C	Change (TA4)	)		Alaska Gleyed Without I	Hue 5Y or Redder
Histic Epipe	edon (A2)		Alaska Alpine	swales (TA5)	)		Underlying Layer	
Hydrogen S	Sulfide (A4)		Alaska Redox	With 2.5Y Hu	ae		Other (Explain in Remai	rks)
Thick Dark	Surface (A12)		30:	£   d   4! -	<b></b>			hd.alaa.
Alaska Gley	yed (A13)		and an appropria				mary indicator of wetland esent	nyarology,
Alaska Red	,		4 Give details of	color change	in Remark	rs		
Alaska Gley	yed Pores (A15)		GIVE details of t	color change	III Keman			
estrictive Laye	r (if present):							
Type: froze							Hydric Soil Presen	t? Yes 💿 No 🔾
	oc\. 16							
Depth (inch emarks: annot break th	rough frozen layer							
emarks:	·							
emarks:	rough frozen layer							
emarks: annot break th	rough frozen layer						_Secondary Inc	licators (two or more are required)
emarks: annot break th  YDROLOG Vetland Hydr	rough frozen layer  GY  ology Indicators  cors (any one is suf						Water Sta	nined Leaves (B9)
YDROLOG Vetland Hydr Primary Indicat	GY lology Indicators cors (any one is sufater (A1)			Visible on Aer	_		Water Sta	nined Leaves (B9) Patterns (B10)
YDROLOGUETA STEEL	GY rology Indicators cors (any one is sufater (A1) or Table (A2)		Sparsely Ve	getated Conc	_		Water Sta	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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