## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 09-Jul-13								
Applica	ant/Owner: Alaska Energy Authority			Sampling Point: SW13_T107_01									
	gator(s): SLI, SCB	side, terrac	ce, hummocks etc.): Shoreline										
•	elief (concave, convex, none): flat		Slope: 0.0										
		L at :											
_	jion : Interior Alaska Mountains	Lai	62.861615419	1									
	p Unit Name:	NWI classification: PEM1E											
Are V Are V		significantly naturally pr	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes No Significant State Sampled Area												
	Hydric Soil Present? Yes ● No C												
	Wetland Hydrology Present? Yes   No C	)	Wi	thin a W	etland? Yes W No								
	arks: photo time 9:20, photo #1481-1484. emergent	frings of s	mall lake										
	ETATION - Use scientific names of plants. Li	st all spe	ecies in the  Dominant Species?		Dominance Test worksheet:  Number of Dominant Species								
1.	- Structum	0			That are OBL, FACW, or FAC:5(A)								
2.					Total Number of Dominant Species Across All Strata: 5 (B)								
3.													
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.		0			Prevalence Index worksheet:								
	Total Cover:				Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 39.2 x 1 = 39.2								
		0.1	<b>✓</b>	FACW	FACW Species 20.2 x 2 = 40.40								
	Salix fuscescens Picea mariana	0.1	<b>▼</b>	FACW	FAC Species 1.1 x 3 = 3.300								
	Detula nana	0.1		FACV	FACU Species 0 x 4 = 0								
4.				TAC	UPL Species 0 x 5 = 0								
5.													
6.				-	Column Totals: <u>60.5</u> (A) <u>82.9</u> (B)								
7.		0			Prevalence Index = B/A =1.370								
8.		0			Hydrophytic Vegetation Indicators:								
9.					Dominance Test is > 50%								
10.		0			✓ Prevalence Index is ≤3.0								
Her	Total Cover:  b Stratum 50% of Total Cover:		6 of Total Cover	: 0.06	✓ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)								
1.	Carex aquatilis	_30_	✓	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
2.	Eriophorum russeolum		<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
3.	Carex aquatilis var. dives	5		OBL	be present, unless disturbed or problematic.								
4.	Comarum palustre	2		OBL	Plot size (radius, or length x width)								
5.	Carex Ioliacea	_1_		OBL	% Cover of Wetland Bryophytes								
6.	Calamagrostis canadensis	1		FAC	(Where applicable)								
7.	Epilobium palustre	1		OBL	% Bare Ground								
8.	Carex pluriflora	0.1		OBL	Total Cover of Bryophytes								
9.	Carex magellanica	0.1		OBL									
10.	Eriophorum angustifolium	0.1 60.3		OBL	Hydrophytic								
	<b>Total Cover:</b> 50% of Total Cover: 3	12.06	Vegetation Present? Yes No No										
-		0.13 20%	or rotal cover.	12.00	1								
Rem	arks: carsit a range extension from ALA. lots of sphagnum												

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SOIL Sampling Point: SW13\_T107\_01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators  Matrix Redox Features						cators)				
Depth (inches)	Color (moi			Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	Color (mol	<u>stj</u>	100	Color (moist)		Туре	LOC	Fibric Organics	Remarks	
								- I lbric Organics		
								-		
1- 0.0				21						
		Depletion. I		ed Matrix <sup>2</sup> Location				nnel. M=Matrix		
Hydric Soil I				Indicators for Pr		4	oils:	1		
	or Histel (A1)			Alaska Color C		•		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
	pedon (A2)			Alaska Alpine s			<b>√</b>	, , ,		
	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue						
	k Surface (A12)			3 One indicator of	f hydrophy	rtic vegetatic	on one prin	nary indicator of wetland h	vidrology	
	eyed (A13)			and an appropria					ydi ology,	
Alaska Re	, ,			<sup>4</sup> Give details of o	color chanc	a in Remar <sup>i</sup>	lve			
Alaska Gle	eyed Pores (A15	)		- GIVE details or c	UlUI CIIGII9	e III Neman				
Restrictive Laye	er (if present):									
Type: froz								<b>Hydric Soil Present</b>	? Yes 🏵 No 🔾	
Depth (incl	hes): 4									
i										
HYDROLO	)GY									
Wetland Hyd	Irology Indicat	ors:							cators (two or more are required)	
	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface V	` ,			Inundation V		_				
	ter Table (A2)			Sparsely Veg		ncave Surfa	ice (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposit	. ,				of Reduced Iron (C4)	
☐ Water Ma				Hydrogen Su				☐ Salt Depos		
	t Deposits (B2)			☐ Dry-Season \		• •			Stressed Plants (D1)	
☐ Drift Depo	` ,			U Other (Expla	in in Rema	ırks)			ic Position (D2)	
	t or Crust (B4)							Shallow Ac		
☐ Iron Depo	` ,								graphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa		Yes •	No ()	Don'th (inch.	>- 6					
Surface Wate		Yes •		Depth (inche	•		'Matla	·· - I Uradarala may Drocon	t? Yes • No O	
Water Table F				Depth (inche	es): 0		Wetiai	nd Hydrology Presen	t? Yes • No ·	
Saturation Present? (includes capillary fringe)  Yes No Depth (inches): 0										
Describe Recor	rded Data (strea	ım gauge, r	nonitor well	l, aerial photos, pre	vious inspe	ection) if av	ailable:			
Remarks:										
	ace water w avg	depth of 6	in. emerger	nt fringe of small po	ond, areas	w no surfac	ce water hav	ve water table at surface.		
			-	· J	•					

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