WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City:	Matanuska-Susitna Borough Sampling Date: 21-Jun-12								
Dilicant/Owner: Alaska Energy Authority Sampling Point: SW12_T32_03									
	Ilside, terrace, hummocks etc.): Flat								
	% / 0.0 ° Elevation: 930								
Subregion: Interior Alaska Mountains Lat.: 62.76156990									
Soil Map Unit Name:	NWI classification: PEM1E								
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are Vegetation ☐ , Soil ☑ , or Hydrology ☐ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling poin	Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)								
S the Sampled Area									
Hydric Soil Present?	within a Wetland? Yes ● No ○								
Wetland Hydrology Present? Yes No No Within a Wetland?									
Remarks: Plot moved from original point to avoid wolf/woverine/fox den VEGETATION - Use scientific names of plants. List all species in the plot. Dominance Test worksheet:									
	Indicator Status Number of Dominant Species								
Tree Stratum 1. % Cover Species? 0 0	That are OBL, FACW, or FAC: 4 (A)								
	Total Number of Dominant								
3	Species Across All Strata:4(B)								
4	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)								
5. 0	Prevalence Index worksheet:								
Total Cover: 0	Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cove	• • •								
1. Betula nana 5	FAC FACW Species 1 x 2 = 2								
	OBL FAC Species <u>5</u> x 3 = <u>15</u>								
	FACU Species 0 x 4 = 0								
3. Salix puicnra 1	UPL Species 0 x 5 = 0								
5	Column Totals: 73 (A) 84 (B)								
6	Column Totals. 73 (A) 64 (B)								
7	Prevalence Index = B/A = 1.151								
8. 0	Hydrophytic Vegetation Indicators:								
9. 0	✓ Dominance Test is > 50%								
10. 0	Prevalence Index is ≤3.0								
Total Cover: 8 Herb Stratum 50% of Total Cover: 4 20% of Total Cover	r: 1.6 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1. Carex aquatilis 40	OBL Problematic Hydrophytic Vegetation ¹ (Explain)								
2. Carex vaginata 20 ✓	OBL ¹ Indicators of hydric soil and wetland hydrology must								
3. Trichophorum caespitosum 5	OBL be present, unless disturbed or problematic.								
4	Plot size (radius, or length x width)								
50	% Cover of Wetland Bryophytes 0								
60	(Where applicable)								
7	% Bare Ground								
8	Total Cover of Bryophytes _5								
9									
10	Hydrophytic								
Total Cover: 65	Vegetation Present? Yes • No •								
50% of Total Cover: 32.5 20% of Total Cove	$_{:}$ $_{13}$ Present? Yes $ullet$ No $ullet$								

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SOIL Sampling Point: SW12_T32_03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)							cators)				
Depth		latrix						Tt	Paranda.		
(inches)	Color (moi	st)	<u> </u>	olor (moist)	_%_	Type ¹	Loc ²	Texture	Remarks		
					- ——						
			— —								
		———									
¹Type: C=Cor	ncentration. D=	Depletion. P	₹M=Reduced N	Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		Ir	ndicators for Pr	roblemati	c Hydric So	oils: ³				
	r Histel (A1)			Alaska Color Cl		4					
	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer					de 31 of Redder		
	Sulfide (A4)			Alaska Redox V	-	-	V	Other (Explain in Remark	s)		
	k Surface (A12)		-	2 *				-	•		
Alaska Gle								nary indicator of wetland h	ydrology,		
Alaska Red			a	ind an appropriat	te landscap	e position r	must be pre	esent			
	eyed Pores (A15))	4	Give details of o	olor chang	e in Remark	ĸs				
Restrictive Laye											
Type:	si (ii present).							Hydric Soil Brosont	? Yes ● No ○		
Depth (inch	has).							Hydric Soil Present	f tes S NO S		
Remarks:	iesj.										
HYDROLO	GY										
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)							ned Leaves (B9)		
✓ Surface W	Vater (A1)		ſ	☐ Inundation V	/isible on A	erial Image	ry (B7)	☐ Drainage P	Patterns (B10)		
High Water Table (A2) Sparsely Vegetated Concave Surface (I											
Saturation (A3) Marl Deposits (B15)					. ,	Presence o	of Reduced Iron (C4)				
☐ Water Ma	ırks (B1)		ſ	Hydrogen Su	. ,	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)		ſ	Dry-Season \				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)		ſ	Other (Explai				Geomorphi	ic Position (D2)		
Algal Mat or Crust (B4)									juitard (D3)		
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)		
Surface S	ioil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes 💿	No 🔾	Depth (inche	es): 2						
Water Table P	resent?	Yes \bigcirc	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre		Yes O			•			• •	-		
(includes capi		Yes ∪ ———	No 🔍	Depth (inche	≥ s):						
Describe Recor	ded Data (strea	m gauge, m	nonitor well, a	erial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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