WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Samp	oling Date: 11-Jul-13				
Applicant/Owner: Alaska Energy Authority		Sampling Poin	nt: SW13_T190_05				
Investigator(s): JGK	Landform (hills	ide, terrace, hummocks etc.): Benc	h				
Local relief (concave, convex, none): hummocky	Slope:	% / 4.1 ° Elevation: 891					
Subregion : Interior Alaska Mountains Lat.:	62.9544495337	Long.: -148.248033999	Datum: NAD83				
Soil Map Unit Name:		NWI classification	on: PSS1B				
	ar? Yes (ntly disturbed? problematic?	No (If no, explain in Rema Are "Normal Circumstances" prese (If needed, explain any answers in	ent? Yes $ullet$ No $igodown$				
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							

	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland? Yes O No O
F	emarks:			

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

Tree Stratum % Cover Species? Status Number of Dominant Species 1. 0 0 0 1 Color of Covers 4 (h) 3. 0 0 0 0 1 Color of Covers 4 (h) 3. 0 0 0 0 0 0 1 Color of Covers 4 (h) 5. 0 0 0 0 0 0 1 Color of Covers 100.0% (A/B) 5. 0 0 0 0 0 1 Color of Covers 100.0% (A/B) 2. Salix richardsonia 35 Y FACW FACW Species 55 x 2 = 110 11.3 14 = 0.400 12.5 1.4 = 0.400 12.5 1.4 = 0.400 12.5 1.1 = 15.5 5.2 2.0 x 5 = 0 0 x 5 = 0 0 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.	Tree Stratum		۸hc	olute	Dominant	Indicator	Dominance Test worksheet:			
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3.	2.			-	0					
4.										
5. 0 0 Prevalence Index worksheet: Total Cover: 0 Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 1. Salix richardsonii 35 FACW FAC Species 55 x1 = 45 2. Salix richardsonii 35 FACW FAC Species 35. x1 = 45 3. Vaccinium uliginosum 15 FAC FAC FAC Species 37.1 x3 = 111.3 4. Dasiphora fruticosa 10 FAC FAC FAC UPL Species 0.1 x4 = 0.400 4. Dasiphora fruticosa 0.1 FAC FAC Column Totals: 137.2 (A) 266.7 (B) 6. Empetrum nigrum 5 FAC FAC Prevalence Index = B/A = 1.944 8. Alnus viridis 0.1 FAC Worphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic solid and wetland hydrology must Problematic solid and wetland hydrology must 2. Eriophorum angustifolium 35 O O Problematic solid and wetland hydrology must 3										
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50% of Total Cover: 22.5 20% of Total Cover: Present? Yes • No O					45			Vegetation		
Remarks:							9	Present? Yes \odot No \bigcirc		
	Rem	arks:								

		the depth ne Matrix	eeded to docu	iment the indicator or co	nfirm the ab dox Featu		cators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4			100					Fibric Organics			
4-6	5YR	2.5/1	100				<u>.</u>	Oe + silt	Flood event?		
6-12	7.5YR	3/1			-			Sandy Silt Loam			
	7.51K	5/1							highly organic		
		,	,		- ,			<u>.</u>			
¹ Type: C=Cor	ncentration. D=	Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	: Hvdric S	oils: ³				
	r Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)			Alaska Alpine s		,		Underlying Layer			
	Sulfide (A4)			Alaska Redox V				Other (Explain in Remark	s)		
	k Surface (A12))									
🗌 Alaska Gle	eyed (A13)							nary indicator of wetland h	ydrology,		
🗌 Alaska Red				and an appropriat	le ianuscal	e position	must be pre	esent			
🗌 Alaska Gle	eyed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remar	ks				
Restrictive Laye	er (if present):										
Type:	(p).							Hydric Soil Present	? Yes 🔿 No 🖲		
Depth (incl	nes):							,			
Remarks:											
HYDROLO											
Wetland Hyd									cators (two or more are required)		
	tors (any one i	s sufficient	t)						ned Leaves (B9)		
Surface W	. ,			Inundation V					atterns (B10)		
High Wate	er Table (A2)			Sparsely Veg		icave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Water Ma				Marl Deposit:	. ,	(C1)		 Presence of Reduced Iron (C4) Salt Deposits (C5) 			
	Deposits (B2)			Dry-Season \				Stunted or Stressed Plants (D1)			
	,			Other (Explai		• •		Geomorphic Position (D2)			
	or Crust (B4)					110)			uitard (D3)		
Iron Depo									raphic Relief (D4)		
Surface S	oil Cracks (B6)							FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Wate	r Present?	Yes C) No 🖲	Depth (inche	es):						
Water Table F	Present?	Yes 🤆) No ()	Depth (inche	es): 10		Wetlar	nd Hydrology Presen	t? Yes $ullet$ No $igcap$		
Saturation Pre		Yes 🖲) No ()	Depth (inche							
(includes capi					·						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											