WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Applicant/Owner: Alaska Energy Authority Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-1 Sampling Point: SW12_T41_(Sw12_T41_(Landform (hillside, terrace, hummocks etc.): Hillside Local relief (concave, convex, none): hummocky Slope: 26.7 % / 15.0 ° Elevation: 769			
Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Hillside			
	104		
Soil Map Unit Name: NWI classification: Upland			
Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? Are Vegetation , Soil , or Hydrology naturally problematic? Are Thormal Circumstances present? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes No No Is the Sampled Area			
Hydric Soil Present? Yes No 🔍			
Wetland Hydrology Present? Yes No No Within a Wetland?			
Remarks: VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Dominance Test worksheet:			
Tree Stratum We Cover Species? Status Number of Dominant Species That are OBL, FACW, or FAC: 4	A)		
1. Betula neoalaskana 10 FACU Total Number of Dominant			
	B)		
3 Percent of dominant Species	A (D)		
	A/B)		
5 O Prevalence Index worksheet:			
Total Cover: 40 Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover: 20 20% of Total Cover: 8 OBL Species 0 x 1 = 0			
1. Alnus viridis ssp. crispa 20 FAC FACW Species 0 x 2 = 0			
2. Spiraea stevenii 1 FACU FAC Species 81 x 3 = 243			
3. Rosa acicularis 5 FACU Species 63 x 4 = 252			
4. Ledum groenlandicum 5 FAC UPL Species 0 x 5 = 0			
5. Empetrum nigrum 5 FAC Column Totals: 144 (A) 495	(B)		
6. Vaccinium uliginosum 15 FAC Prevalence Index = B/A = 3.438			
7. Vaccinium vitis-idaea 10 FAC			
8. Salix commutata Hydrophytic Vegetation Indicators:			
9. Linnaea borealis			
10. Salix barclayi 1			
Total Cover: 74	a in		
1. Mertensia paniculata 2 FACU Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Cornus canadensis 5 FACU ¹ Indicators of hydric soil and wetland hydrology must			
3. Equisetum sylvaticum 20 FAC be present, unless disturbed or problematic.			
4. Lycopodium clavatum 3 FACU Plot size (radius, or length x width) 10m			
5			
6 (Where applicable)			
7			
8 Total Cover of Bryophytes	į.		
9			
10 <u>0</u> Hydrophytic			
Total Cover: 30_ Vegetation 50% of Total Cover: 15 20% of Total Cover: 6 Present? Yes ● No ○			
50% of Total Cover: 15 20% of Total Cover: 6 Present? Yes No			

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SOIL Sampling Point: SW12_T41_07

Profile Description: (Describe	to the depth n	needed to docur		onfirm the abo		ators)			
Depth (inches) Color (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2			Color (moloc)		.,,,,		Fibric Organics		
2-4							Hemic Organics		
4-5							Sapric Organics		
	2/2						Supric Organics		
5-16 10YR	3/2			_				distubance, see remarks	
¹ Type: C=Concentration.	D=Depletion	n. RM=Reduc			_		nnel. M=Matrix		
Hydric Soil Indicators:			Indicators for P	roblematio	Hydric So	oils: ³			
Histosol or Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder						
Histic Epipedon (A2)			Alaska Alpine swales (TA3)				Underlying Layer	<i>,</i>	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	(S)	
Thick Dark Surface (A	12)		3 One indicator of	f hydronhyt	ic vegetatio	n one prin	nary indicator of wetland h	wdrology	
Alaska Gleyed (A13)			and an appropria					iydi ology,	
☐ Alaska Redox (A14) ☐ Alaska Gleyed Pores (A	A15)		⁴ Give details of o	color change	e in Remark	s			
Restrictive Layer (if presen Type:	L):						Hydric Soil Present	? Yes ○ No •	
Depth (inches):							nyunc son Present	r res 🔾 NO 🔾	
Remarks:									
E400/ CI 1 7						supric orgu	riics and icriscs or saila ac	eposition throughout mineral horizon	
[40% of horizon].						Supric Orgu	ines und tenses of sund de	pesidor direcgiode illineidi 16/126/1	
						supric orga	ines and tenses of saint de	position directification (201	
HYDROLOGY	cators:					Supric Orga			
		nt)				Suprice or gu	_Secondary Indi	cators (two or more are required) ned Leaves (B9)	
HYDROLOGY Wetland Hydrology Ind		nt)	☐ Inundation \	visible on A			Secondary Indi	cators (two or more are required)	
HYDROLOGY Wetland Hydrology Ind Primary Indicators (any or	e is sufficier	nt)	☐ Inundation \		erial Image	ry (B7)	Secondary Indi Water Stai Drainage F	cators (two or more are required) ned Leaves (B9)	
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