WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 20-Aug-15				
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW15_T300_01				
Investigator(s): BAB	Landform (hills	Iside, terrace, hummocks etc.): concave backslope				
Local relief (concave, convex, none): hummocky) % / 8.0 ° Elevation:				
Subregion : Interior Alaska Mountains La	t.:	Long.: Datum: WGS84				
Soil Map Unit Name:		NWI classification: Upland				
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes ⁽	No (If no, explain in Remarks.)				
	antly disturbed?	Are "Normal Circumstances" present? Yes No				
	ly problematic?	(If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map showing s		locations, transects, important reatures, etc.				
Hydrophytic Vegetation Present? Yes No	le	the Sampled Area				
Hydric Soil Present? Yes O No 💿		ithin a Wetland? Yes \bigcirc No \bigcirc				
Wetland Hydrology Present? Yes O No 🖲						
Remarks: gentle planar slope, a shelf between two steeper slopes	, with an increase	of alnus compared to upslope				
VEGETATION - Use scientific names of plants. List all	species in the	plot.				
Abso	lute Dominant	Indicator Dominance Test worksheet:				
Tree Stratum % Co		Status Number of Dominant Species				
1. Picea mariana 2	.0	FACW That are OBL, FACW, or FAC: <u>6</u> (A)				
2.	0	Total Number of Dominant Species Across All Strata: 6 (B)				
	0	Percent of dominant Species				
	0	That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B))			
-	0	Prevalence Index worksheet:				
Total Cover:	20	Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover: 10	20% of Total Cover:					
1. Alnus viridis ssp. sinuata	30	FAC FACW Species 39 x 2 = 78				
2 Vaccinium uliginacum	15	FAC FAC Species 76.1 x 3 = 228.3				
	15	FACW FACU Species 0 x 4 = 0				
	5	FAC UPL Species 0 x 5 = 0				
	5	FAC Column Totals: _115.1 (A) _306.3 (E	B)			
	5	FAC	21			
	5	FAC Prevalence Index = B/A = <u>2.661</u>				
8. Salix pulchra	4	FACW Hydrophytic Vegetation Indicators:				
9. Salix barclayi	4	FAC Dominance Test is > 50%				
10. Betula occidentalis	2	FAC Prevalence Index is ≤ 3.0				
	90	Morphological Adaptations (Provide supporting data in	I			
Herb Stratum 50% of Total Cover: 45						
5	3	FAC Problematic Hydrophytic Vegetation (Explain)				
	2	FAC 1 Indicators of hydric soil and wetland hydrology must				
· · · · · · · · · · · · · · · · · · ·	0.1	FAC be present, unless disturbed or problematic.				
		Plot size (radius, or length x width) <u>10m</u>				
0:		% Cover of Wetland Bryophytes				
0.		(Where applicable)				
		% Bare Ground				
0.		Total Cover of Bryophytes				
J	0					
10.		Hydrophytic Vegetation				
Total Cover: <u>5</u> 50% of Total Cover: <u>2.55</u>						
Remarks:						

		the depth r Matrix	needed to doc	ument the indicator or co Re	onfirm the at edox Featu		cators)				
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3								Fibric Organics	Oi		
3-4.5								Hemic Organics	 Oe		
4.5-7.5							-	Sapric organics	 Oa		
7.5-10	10YR	4/1	100					Sandy Loam	-		
10-17	10YR	4/3	100					Sandy Loam	-		
	101K	5 (7									
¹ Type: C=Co	ncentration. D	=Depletior	າ. RM=Redu	iced Matrix ² Locatio	on: PL=Por	re Lining. R	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemat	ic Hydric S	oils: ³				
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	Hue 5Y or Redder		
	pedon (A2)			Alaska Alpine		,		Underlying Layer			
	Sulfide (A4)			Alaska Redox	With 2.5Y	Hue		Other (Explain in Remar	rks)		
Thick Dar	k Surface (A12	2)									
🗌 Alaska Gle	eyed (A13)			³ One indicator o and an appropria				mary indicator of wetland	hydrology,		
Alaska Re	dox (A14)							coche			
Alaska Gle	eyed Pores (A1	15)		⁴ Give details of o	color chang	je in Remari	KS				
Restrictive Lay	er (if present)	:									
Type:								Hydric Soil Presen	t? Yes 🔿 No 🖲		
Depth (incl	hes):							-			
Remarks: no hydric soil ii		rved									
HYDROLO Wetland Hyd	-							Cocondom Inc	Part of the an array and required)		
Primary Indica			nt)						dicators (two or more are required) ained Leaves (B9)		
	Vater (A1)	13 Jumere.	<u>(()</u>	Inundation	Visible on /	∆erial Image			Patterns (B10)		
	er Table (A2)			Sparsely Ve		-					
Saturation	· · /			Marl Deposit	-	neuve eu		Presence of Reduced Iron (C4)			
Water Ma	. ,			Hydrogen Si	. ,	r (C1)		Salt Deposits (C5)			
	nent Deposits (B2)							Stunted or Stressed Plants (D1)			
Drift Dep	Deposits (B3) Other (Explain in Remarks)							Geomorphic Position (D2)			
	al Mat or Crust (B4)							Shallow Aquitard (D3)			
	n Deposits (B5)							Microtopographic Relief (D4)			
Surface S	oil Cracks (B6)						✓ FAC-neutr	al Test (D5)		
Field Observa	ations:	(
Surface Wate	r Present?	Yes			es):						
Water Table F	Present?	Yes	🗅 🛛 No 🖲	Depth (inch	es):		Wetla	nd Hydrology Prese	nt? Yes 🔾 No 🖲		

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Depth (inches):

Yes 🔿 No 🖲

Remarks:

Saturation Present?

(includes capillary fringe)