WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T108_02							
Investigator(s): JER Landform (hillside, terrace, hummocks etc.): Shoulder slope												
Local relief (concave, convex, none): convex Slope: % / 2.7 ° Elevation: 717												
		L at :										
-	ion : Interior Alaska Mountains	Lal	62.88130879	4								
	p Unit Name:				NWI classification: Upland							
Are V Are V	natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology IARY OF FINDINGS - Attach site map sho	significantly	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes • No	0	_									
	Hydric Soil Present? Yes O No	۲			pled Area							
	Wetland Hydrology Present? Yes O No	•	within a Wetland? Yes \bigcirc No $oldsymbol{igstar}$									
Remarks: stob w closed patches, ds understory closed VEGETATION - Use scientific names of plants. List all species in the plot.												
		Absolute	Dominant	Indicator	Dominance Test worksheet:							
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)							
1.	,	0			Total Number of Dominant							
2.		0			Species Across All Strata:6(B)							
3.		0			Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cove	er:			Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	20%	of Total Cover	:	OBL Species $0 \times 1 = 0$							
1	Rhododendron tomentosum	70	\checkmark	FACW	FACW Species 70 x 2 = 140							
2.	Betula nana	55		FAC	FAC Species $136 \times 3 = 408$							
3.	Vaccinium uliginosum	45		FAC	FACU Species 3.1 x 4 = 12.4							
4.	Vaccinium vitis-idaea			FAC	UPL Species $0 \times 5 = 0$							
5.	Betula glandulosa			FAC								
6.	Empetrum nigrum	5		FAC	Column Totals: <u>209.1</u> (A) <u>560.4</u> (B)							
7.	Betula occidentalis	1		FAC	Prevalence Index = B/A = 2.680							
8.	Picea glauca	0.1		FACU								
		0			✓ Dominance Test is > 50%							
		0			✓ Prevalence Index is ≤3.0							
	Total Cove	er: 201			Morphological Adaptations ¹ (Provide supporting data in							
Her	b Stratum 50% of Total Cover:		% of Total Cove	r: 40.22	Remarks or on a separate sheet)							
1.	Carex bigelowii	3	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
	Cornus canadensis	- <u> </u>	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must							
3.	Cornus suecica		\checkmark	FAC	be present, unless disturbed or problematic.							
4.	Spinulum annotinum			FACU								
5.					Plot size (radius, or length x width) <u>10m</u>							
		-			% Cover of Wetland Bryophytes (Where applicable)							
					% Bare Ground							
					Total Cover of Bryophytes 60							
					Hydrophytic							
	Total Cove 50% of Total Cover:	er: <u>8</u>	of Total Cover	: 1.6	Vegetation Present? Yes • No O							
Pom	arks: plesch 30 steteo licht 20 polyt peparc clav	di flacuc										

Remarks: plesch 30, steteo, lichf 20, polyt, neparc, cladi, flacuc,

Profile Description: (Des		e depth r atrix	eeded to docu		confirm the at		icators)				
<i>a</i> i ,	olor (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
0-5			100					Fibric Organics			
5-10 10)YR	3/2	100					Loamy Sand			
10-15 10)YR	3/6	100					Loamy Sand			
15-22 5	YR	2.5/2	100					Sand			
							·				
. <u> </u>											
¹ Type: C=Concentra	ition. D=D	Pepletior	n. RM=Redu	ced Matrix ² Location	on: PL=Por	re Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil Indicat	ors:			Indicators for F	Problemati	ic Hydric S	ioils: ³				
Histosol or Histel	(A1)			Alaska Color	Change (TA	4)] Alaska Gleyed Without Hi	ue 5Y or Redder		
Histic Epipedon (A2)			🗌 Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen Sulfide	e (A4)			🗌 Alaska Redox	With 2.5Y	Hue		Other (Explain in Remark	s)		
Thick Dark Surface	ce (A12)			30	C I I I I I			and the last of the state	d des		
Alaska Gleyed (A	-			One indicator of and an appropria				nary indicator of wetland h esent	ydrology,		
Alaska Redox (A1											
Alaska Gleyed Pores (A15) ⁴ Give details of color change in Remarks											
Restrictive Layer (if pr	resent):										
Type: frost								Hydric Soil Present	? Yes 🔿 No 🖲		
Depth (inches): 24	4										
Remarks:											
no hydic soil indicators	S										
HYDROLOGY											
Wetland Hydrology									cators (two or more are required)		
Primary Indicators (a		sufficier	it)						ned Leaves (B9)		
	Surface Water (A1) Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Sparsely Vegetated Concave Surface (B8)							Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3)			
High Water Table	e (AZ)			Marl Depos	-	ncave Surra	се (во)	Presence of Reduced Iron (C4)			
Water Marks (B1		Hydrogen S	. ,	(C1)		Salt Deposits (C5)					
					Water Tab			Stunted or Stressed Plants (D1)			
Drift Deposits (B				Other (Expl		• •		Geomorphic Position (D2)			
Algal Mat or Crus	st (B4)					- /		Shallow Aquitard (D3)			
Iron Deposits (B	□ Iron Deposits (B5)								Microtopographic Relief (D4)		
Surface Soil Crac	cks (B6)							FAC-neutra	l Test (D5)		
Field Observations:											
Surface Water Preser	nt?	Yes	🗅 No 🖲	Depth (incl	nes):						
Water Table Present	?	Yes) No 🖲	Depth (incl	nes):		Wetla	Wetland Hydrology Present? Yes \bigcirc No $oldsymbol{igodol}$			
Saturation Present? (includes capillary fri	inge)	Yes 🤇) No 🖲	Depth (inch	nes):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											