## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: N	latanuska-Susitna Borough	Sampling Date:	22-Jun-12
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: S	W12_T18_01
Investigator(s): SLI, EKJ	Landform (hillsid	e, terrace, hummocks etc.):	Saddle	
Local relief (concave, convex, none): flat	_ Slope:%	/ 11.0 ° Elevation: 838	3	
Subregion : Southcentral Alaska Lat.:	62.8517182608	Long.: -149.199425	688 E	Datum: NAD83
Soil Map Unit Name:		NWI classi	fication: PSS4	В
	ar? Yes tly disturbed? problematic?	No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answ	present? Yes	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point lo	cations, transects, impor	tant 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 🖲 No 🔿	
Remarks:					

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

			۵hs	olute	Dominant	Indicator	Dominance Test worksheet:
Tree	e Stratum			Cover	Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC:6 (A)
2.				0			Total Number of Dominant Species Across All Strata: 9 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
5.							
0.		Total Cover					Prevalence Index worksheet:
<b>6</b>	line (Church Churchum	50% of Total Cover:			of Total Covor	0	Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum		0	_ 20%0		0	OBL Species $0 \times 1 = 0$
1.	Empetrum nigrum			15	$\checkmark$	FAC	FACW Species <u>10</u> x 2 = <u>20</u>
2.	Vaccinium uliginosum			5		FAC	FAC Species <u>41</u> x 3 = <u>123</u>
3.	Vaccinium vitis-idaea			5		FAC	FACU Species <u>21</u> x 4 = <u>84</u>
4.	Arctous alpinus			10	$\checkmark$	FACU	UPL Species x 5 =
5.	Detula nono			10	$\checkmark$	FAC	Column Totals: 72 (A) 227 (B)
6.	Rhododendron tomentosum			10	$\checkmark$	FACW	
7.	Loiseleuria procumbens			10	$\checkmark$	FACU	Prevalence Index = B/A = <u>3.153</u>
8.	Salix commutata			1		FAC	Hydrophytic Vegetation Indicators:
9.				0			✓ Dominance Test is > 50%
				0			Prevalence Index is ≤3.0
		Total Cover		66			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum	50% of Total Cover:	33	20%	of Total Cover:	13.2	Remarks or on a separate sheet)
1.	Carex bigelowii			3	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Equisetum sylvaticum			1	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Spinulum annotinum			1	$\checkmark$	FACU	be present, unless disturbed or problematic.
4.	Cornus suecica			1	$\checkmark$	FAC	Plot size (radius, or length x width) 10m
5.	-			0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.				0			(Where applicable)
				0			% Bare Ground 10
				0			Total Cover of Bryophytes 40
				0			
				0			Hudronhutic
10.		Total Cover		6			Hydrophytic Vegetation
		50% of Total Cover:		-	of Total Cover:	1.2	Present? Yes No
			-		-		

Remarks: trace unidentified grass, pedicularis sp. and polygonum bistorta. last season infloresence on unidentified grass looks like a calamagrostis species (hairs at base of lemmas), inrolled leaves with purplish tips. approx 60% lichen ground cover. bare ground includes talus.

	Color (mo	oist)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-3			100						Fibric Organics	
3-5			100						Hemic Organics	»
5-15	5Y	4/2	80	10YR	5/4	20	С	PL	Sandy Clay	few fine to medium semi angular gravel
										_
Type: C=Concer		=Depletion.	RM=Redu				-		annel. M=Matrix	
Hydric Soil India							c Hydric So	oils:	1	··· -·· - ··
Histosol or His	. ,				ka Color Ch		-	L	Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder
Histic Epipedo					ka Alpine sv ka Redox W	•	,	Γ	Other (Explain in Rema	rke)
Hydrogen Sulf	• •				a Redux w	/101 2.51 F	lue			1.5)
Thick Dark Su	•	)					ic vegetation		nary indicator of wetland esent	hydrology,
✓ Alaska Redox	(A14)					•	•			
Alaska Gleyed	l Pores (A1	5)		4 Give a	etails of co	lor change	e in Remarl	s		
Restrictive Layer (i	if present):									
/ 、										
Type: active la	ayer (frozei								Hydric Soil Presen	it? Yes 🖲 No 🔾
	, ,								Hydric Soil Presen	it? Yes ● No ○
Type: active la	): 15	n)							Hydric Soil Presen	nt? Yes 🖲 No 🔿
Type: active la Depth (inches) Remarks:	): 15	n)							Hydric Soil Presen	nt? Yes
Type: active la Depth (inches) Remarks: lifficult to get good	): 15 od photo of 1	n) soil profile.								
Type: active la Depth (inches) Remarks: lifficult to get good	): 15 od photo of Y ogy Indica	n) soil profile.							Secondary Inc	dicators (two or more are required)
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