WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: N	/latanuska-Susitna Borough	Sampling Date:	23-Jun-12
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: S	W12_T19_02
Investigator(s): JGK	Landform (hillsic	le, terrace, hummocks etc.):	Hillside	
Local relief (concave, convex, none): hummocky	Slope: %	6 / 13.9 ° Elevation: 915	- 	
Subregion : Southcentral Alaska Lat.:	62.783658309	Long.: -149.513145	743 C	Datum: NAD83
Soil Map Unit Name:		NWI classi	fication: Uplan	d
	ar? Yes tly disturbed? problematic?	No (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?	Yes \bigcirc	No 🖲	Is the Compled Area
Hydric Soil Present?	Yes \bigcirc	No 🖲	Is the Sampled Area within a Wetland? Yes \bigcirc No \bigcirc
Wetland Hydrology Present?	Yes 🖲	Νο 〇	within a Wetland? Yes \bigcirc No \bigcirc
Remarks:			

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

Abr			solute Dominant		Dominance Test worksheet:
		% Cover	Species?	Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.		0			
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC:
5.		0			
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
1	Cassiope tetragona	10		FACU	FACW Species 17 x 2 = 34
		15		FACW	FAC Species 50 x 3 = 150
	Empotrum pigrum	50	\checkmark	FAC	FACU Species 16 x 4 = 64
		2		FACU	UPL Species 5 x 5 = 25
	lthere are stimula	5		UPL	
					Column Totals: <u>88</u> (A) <u>273</u> (B)
					Prevalence Index = B/A = <u>3.102</u>
		0			an a sub-state and the state of the state of
		0			Hydrophytic Vegetation Indicators: Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Her	Total Cover: b Stratum 50% of Total Cover:		of Total Cover:	16.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex atrofusca	2	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Diphasiastrum complanatum	2	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must
	Spinulum annotinum	2	\checkmark	FACU	be present, unless disturbed or problematic.
4.		0			
		0			Plot size (radius, or length x width) <u>10m</u>
		-			% Cover of Wetland Bryophytes (Where applicable)
		-			% Bare Ground 5
					Total Cover of Bryophytes 10
		0			<u>10</u>
		0			Hydrophytic
	Total Cover:	6			Vegetation
	50% of Total Cover:		of Total Cover:	1.2	Present? Yes No 🖲
Rem	arks: 5% lichen				

0-1 100 Fibre Organics 1-4 100 Henic Organics 4-8 7.5YR 3/3 70	Depth (inches)		Matrix			dox Featu		• 2	Texture	Remarks	
1-4 100 Image: Secondary Indicators (two or more are required) *Type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Indicators: Indicators for Problematic Hydric Soils? Indicators: Indicators (TA) Indicators: Indicators for Problematic Hydric Soils? Indicators: Indicators (TA) Indicators: Indicators (TA) Indicators: Indicators (TA) Indicator of Problematic Hydric Soils? Alaska Color Change (TA) Indicator (A) Alaska Nedox With 2.5Y Hue Other (Explain in Remarks) Indicator of hydrophytic vegotation, one primary indicator of wetland hydrology, and an appropriate indicator of methand hydrology, and an appropriate indicator of methand hydrology, and an appropriate indicator of wetland hydrology. Alaska Redox (A14) 4Gwe details of color change in Remarks Restrictive Layer (If present): True Type: i ce Secondary Indicators (two or more are required) Implement Rel (A2) Sparseyl Vegetated Concave Surface (R8) Implement Rel (A2) Sparseyl Vegetated Concave Surface (R8) Implement Rel (A2) Sparseyl Vegetated Concave Surface (R8) <th></th> <th>Color (mo</th> <th>vist)</th> <th><u> </u></th> <th>Color (moist)</th> <th><u>%</u></th> <th>Type¹</th> <th>_Loc ²</th> <th></th> <th>Këlija kë</th>		Color (mo	vist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	_ Loc ²		Këlija kë	
4-8 7.5YR 3/3 70 sentiangular carse 5.k Gr (20 %) ** * ** **									-		
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Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

No water table associated w saturation, but restrictive layer within upper 12".