WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	rough Sampling Date: 01-Aug-13	
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T145_03	
	pator(s): SLI, EAC		Landform (hillside, terrace, hummocks etc.): Shoreline			
	elief (concave, convex, none): flat				° Elevation: 723	
	ion : Interior Alaska Mountains	l at ·	63.39840233		Long.: -148.661272526 Datum: WGS84	
_	p Unit Name:		03.33040233	<u> </u>		
	natic/hydrologic conditions on the site typical for this t	. ,	o V	■ N= ○	NWI classification: PEM1F	
Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map sho	significantly naturally pi wing san	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No O	
	Hydrophytic Vegetation Present? Yes No		ls	the Sam	pled Area	
	Hydric Soil Present? Yes No			ithin a W		
	Wetland Hydrology Present? Yes ● No 🤇)	•	a vv	etiana:	
Rem	TATION -Use scientific names of plants. L	<u> </u>		•	Dominance Test worksheet:	
Tree	Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species	
1.		0			That are OBL, FACW, or FAC: 2 (A)	
2.					Total Number of Dominant Species Across All Strata: 2 (B)	
3.		0			Percent of dominant Species	
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.		0			Prevalence Index worksheet:	
	Total Cover	:			Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 75 x 1 = 75	
1.		0			FACW Species 0 x 2 = 0	
_					FAC Species 20 x 3 = 60	
3.					FACU Species 0 x 4 = 0	
4.					UPL Species 0 x 5 = 0	
5.					Column Totals: <u>95</u> (A) <u>135</u> (B)	
6.						
7.		٥			Prevalence Index = B/A = 1.421	
8.		0			Hydrophytic Vegetation Indicators:	
9.		0			✓ Dominance Test is > 50%	
10.		0			✓ Prevalence Index is ≤3.0	
Her	Total Cover 50% of Total Cover:		6 of Total Cove	r: <u>0</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1.	Calamagrostis canadensis		~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
	Carex aquatilis		~	OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Comarum palustre			OBL	be present, unless disturbed or problematic.	
					Plot size (radius, or length x width)5m	
		•			% Cover of Wetland Bryophytes	
		•			(Where applicable)	
					% Bare Groundg9	
					Total Cover of Bryophytes	
		- - 0			Hardan about	
10.	Total Cover	- 			Hydrophytic Vegetation	
1			of Total Cover	: 19	Present? Yes No	
	50% of Total Cover:	47.5 20%	of Total Cover	19		

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SOIL Sampling Point: SW13_T145_03 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type ¹ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:³ **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **Underlying Layer** Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) ✓ Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) ⁴ Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: h2s odor when walking tnrougn. HADBUI UCA

III DROEGO								
Wetland Hydrology Indicators: Secondary Indicators (two or more are required)								
Primary Indicators (any one is	s sufficient)	Water Stained Leaves (B9)						
✓ Surface Water (A1)		☐ Inundation Visible on Aerial Image	ery (B7) Drainage Patterns (B10)					
☐ High Water Table (A2)		Sparsely Vegetated Concave Surface	ace (B8) Oxidized Rhizospheres along Living Roots (C3)					
Saturation (A3)		Marl Deposits (B15)	Presence of Reduced Iron (C4)					
☐ Water Marks (B1)		✓ Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)					
Sediment Deposits (B2)		☐ Dry-Season Water Table (C2)	Stunted or Stressed Plants (D1)					
☐ Drift Deposits (B3)		Other (Explain in Remarks)	✓ Geomorphic Position (D2)					
☐ Algal Mat or Crust (B4)			Shallow Aquitard (D3)					
☐ Iron Deposits (B5)			☐ Microtopographic Relief (D4)					
Surface Soil Cracks (B6)			FAC-neutral Test (D5)					
Field Observations:								
Surface Water Present?	Yes No	Depth (inches): 6						
Water Table Present? Yes O No •		Depth (inches):	Wetland Hydrology Present? Yes ● No ○					
Saturation Present? (includes capillary fringe) Yes No •		Depth (inches):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: hgwfs on lakeshore								
Remarks:								

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