## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	prough Sampling Date: 05-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T201_06
nvestigator(s): SLI, EAC		Landform (hills	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:		9 ° Elevation: 679
Subregion : Interior Alaska Mountains	Lat.:	63.363256335	 4	Long.: -148.94477129 Datum: NAD83
Soil Map Unit Name:		00.000200000	<u></u>	NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this ti	mo of voo	r2 Ves	• No O	
Are Vegetation . , Soil . , or Hydrology . :				Iormal Circumstances" present? Yes  No
Are Vegetation ✓ , Soil ✓ , or Hydrology □ I	-	-		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show		npling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No   No		le	tha Sam	ipled Area
Hydric Soil Present? Yes   No   No			thin a W	
Wetland Hydrology Present? Yes   No C				ottaria i
Remarks: incised r2ubh running through community character (visible), ohv (calcan). sloughed banks below ohv			water 2-3f	It deep, channel 3-6ft wide at ohw. cover includes ucb
(VISIBLE), OHV (Calcarr). Sloughed banks below only	v at Sampi	ing point.		
VEGETATION - Use scientific names of plants. Li	st all sp	ecies in the	olot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1	0	. 📙		Total Number of Dominant
2.	0			Species Across All Strata:0 (B)
3.	0			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5		. ⊔		Prevalence Index worksheet:
Sapling/Shrub Stratum 50% of Total Cover:		- { of Total Cover:	0	Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 207	o or rotal cover.	0	OBL Species 0 x1 = 0
1				FACW Species 0 x 2 = 0
2.				FAC Species $0 \times 3 = 0$ FACU Species $0 \times 4 = 0$
3.				
4 5.	^			
	•			Column Totals: 0 (A) 0 (B)
7				Prevalence Index = B/A =
		. Д		Hydrophytic Vegetation Indicators:
9.	0			Dominance Test is > 50%
10.	0			☐ Prevalence Index is ≤3.0
Total Covers	0	•		Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb Stratum 50% of Total Cover:	0 20	% of Total Cover	0	Remarks or on a separate sheet)
1	0	. $\square$		✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	0	. 📙		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3	0	. 📙		be present, unless disturbed or problematic.
4		. 📙		Plot size (radius, or length x width) 10m
5.				% Cover of Wetland Bryophytes
6				(Where applicable)
7.				% Bare Ground
8				Total Cover of Bryophytes
9				Hadan bada
10Total Cover:	: 0			Hydrophytic Vegetation
TULBI COVEL				Present? Yes • No •

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13\_T201\_06 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 <sup>1</sup> <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix Indicators for Problematic Hydric Soils: **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder 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) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleved (A13) and an appropriate landscape position must be present Alaska Redox (A14) <sup>4</sup> Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: assume hydric soil due to flowing water and channel morphology **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) Drainage Patterns (B10) ☐ Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ☐ Hydrogen Sulfide Odor (C1) 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:** Yes ● No ○ Surface Water Present? Depth (inches): 30 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches):

U.S. Army Corps of Engineers Alaska Version 2.0

(includes capillary fringe)

Remarks: pH 7.78, ec 720

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