## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:

Susitna-Watana Hydroelectric Project

Borough/City: Denali Borough

Sampling Date:

30-Jul-13

Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T212_08
nvestigator(s): SLI, EAC	L	andform (hills	side, terrac	ee, hummocks etc.): Channel (active)
ocal relief (concave, convex, none): concave	:	Slope: 2.0	% / 1.1	° Elevation: 658
Subregion : Interior Alaska Mountains	Lat.: 6	3.384984732	_	Long.: -148.906412125 Datum: WGS84
oil Map Unit Name:	_			NWI classification: R3UBH
are climatic/hydrologic conditions on the site typical for this	time of year?	Yes (	● No ○	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly		Are "N	lormal Circumstances" present? Yes ● No ○
Are Vegetation ✓ , Soil ✓ , or Hydrology □	naturally pro	oblematic?		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owina sam	nlina noint	locations	s transects important features etc
	•	piirig poirit	iocations	s, transcots, important reatures, etc.
· · · · · · · · · · · · · · · · · · ·	_	Is	the Sam	pled Area
· · · · · · · · · · · · · · · · · · ·	_			Vetland? Yes ● No ○
Wetland Hydrology Present? Yes   No	<i></i>			
Remarks: Characterizing active channel of Jack River. R. (gravels-boulders, incorporating concrete) sep				ffle at plot location. Southern bank man-made levee ms. no cover (ohv, ucb, lwd) in vicinity of plot.
<b>EGETATION</b> - Use scientific names of plants.	List all spec	cies in the p	olot.	
Absolute Dominant Indicator			Dominance Test worksheet:	
Tree Stratum 1.	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:0(A)
				Total Number of Dominant
				Species Across All Strata: 0 (B)
4				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				
Total Cove	er:			Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x1 = 0
1.	0			FACW Species 0 x 2 = 0
2		П		FAC Species 0 x 3 = 0
3.			-	FACU Species 0 x 4 = 0
4.	•			UPL Species 0 x 5 = 0
5.	_			Column Totals: 0 (A) 0 (B)
6	0			
7				Prevalence Index = B/A =0.000_
8				Hydrophytic Vegetation Indicators:
9				☐ Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover:	0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
4.				Diet size (radius au langth y width)
5.				Plot size (radius, or length x width) % Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
	0			Total Cover of Bryophytes
8				
8. 9.	0			
8	0			Hydrophytic
8. 9.	0 0 0	of Total Cover		Hydrophytic Vegetation Present? Yes  No

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SOIL Sampling Point: SW13\_T212\_08 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: active channel, assume hydric soil **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): 24 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks:

channel approx 30ft wide at ohw, water approx 2ft deeep