## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date:22-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T314_06
nvestigator(s): GVF		Landform (hills	side, terrac	e, hummocks etc.): Shoreline
Local relief (concave, convex, none): flat		Slope: 0.0	% / 0.0	° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: L1UBH
•		voc Voc	● No ○	
Are climatic/hydrologic conditions on the site typical for this time. Are Vegetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$ si		y disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
Are Vegetation 🗹 , Soil 🗹 , or Hydrology 🗌 n.	aturally p	roblematic?	(If nee	ded, explain any answers in Remarks.)
CLIMMARY OF FINDINGS. Attach site man show	ina oon	anlina noint	locations	transacta important features, etc
SUMMARY OF FINDINGS - Attach site map show	ing san	ipiirig poirit	locations	s, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes  No		le	tha Sam	pled Area
Hydric Soil Present? Yes   No				-
Wetland Hydrology Present? Yes ● No ○		Wi	thin a W	etiand? Tes © NO ©
Remarks:				
<b>/EGETATION -</b> Use scientific names of plants. Lis	t all spe	ecies in the p	olot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1				
2.				Total Number of Dominant Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4.				That Are OBL, FACW, or FAC: 0.0% (A/B)
5				Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	20%	of Total Cover:	0	OBL Species x 1 =
1				FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.	-			FACU Species 0 x 4 = 0
4.				UPL Species0 x 5 =0
5.				Column Totals:0 (A)0 (B)
6				
7				Prevalence Index = B/A =
8		Ц		Hydrophytic Vegetation Indicators:
9				Dominance Test is > 50%
10				Prevalence Index is ≤3.0
Total Cover:  Herb Stratum 50% of Total Cover:	0 209	6 of Total Cover	0	Morphological Adaptations (P <sup>1</sup> ovide supporting data in Remarks or on a separate sheet)
1	_ 0			✓ Problematic Hydrophytic Vegetation (Explain)
2.	0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3	0			be present, unless disturbed or problematic.
4	0			Plot size (radius, or length x width) 4x8m
5	0			% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
1 0	0			
9	^			
10				Hydrophytic
	0	of Total Cover	0	Vegetation Present?  Yes  No

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15\_T314\_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: inundated lake, 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):

U.S. Army Corps of Engineers

Alaska Version 2.0

Depth (inches):

Depth (inches):

Yes ● No ○

Wetland Hydrology Present?

Yes O No •

Yes ○ No ●

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

Water Table Present?

(includes capillary fringe)

total depth unknown. D2--lake

Saturation Present?

Remarks: