## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 09-Jul-13		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T120_04		
nvestigator(s): JGK		andform (hillside, terrace, hummocks etc.):				
Local relief (concave, convex, none): concave		Slope:	% / 1.2	2 ° Elevation: 967		
Subregion : Southcentral Alaska	Lat ·	62.70264363		Long.: -149.723833562 Datum: NAD83		
Soil Map Unit Name:		02.102040000	<i></i>	NWI classification: PUBH		
Are climatic/hydrologic conditions on the site typical for this	time of voor	n Voc	● No ○			
Are Vegetation , Soil , or Hydrology	significantly naturally pr	disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes  ● No  ○ eded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes   No		la	the Com	unland Area		
Hydric Soil Present? Yes ● No (	ıpled Area /etland? Yes ◉ No ◯					
Wetland Hydrology Present? Yes   No	<u> </u>	W	ithin a W	retiand? res © NO ©		
/EGETATION - Use scientific names of plants. I	_ist all spe	cies in the	plot.	Dentition of Test westerlands		
	Absolute	Dominant		Dominance Test worksheet:  Number of Dominant Species		
Tree Stratum  1.	% Cover	Species?	Status	That are OBL, FACW, or FAC:0(A)		
				Total Number of Dominant		
3	0			Species Across All Strata: 0 (B)		
4.				Percent of dominant Species That Are OBL, FACW, or FAC:		
5	0			Prevalence Index worksheet:		
Total Cove				Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species		
1	0			FACW Species 0 x 2 = 0		
2.				FAC Species x 3 =0		
3	0			FACU Species		
4	0			UPL Species <u>0</u> x 5 = <u>0</u>		
5	0			Column Totals:0 (A)0 (B)		
6				Prevalence Index = B/A = 0.000		
7						
8.				Hydrophytic Vegetation Indicators:		
9				☐ Dominance Test is > 50%		
10Total Cove				☐ Prevalence Index is ≤3.0		
Herb Stratum 50% of Total Cover:		of Total Cove	:0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3				be present, unless disturbed of problematic.		
4				Plot size (radius, or length x width)		
5				% Cover of Wetland Bryophytes		
6				(Where applicable)		
7. 8.				% Bare Ground  Total Cover of Bryophytes		
9.				Total Covel of Disophistes		
10.				Hydrophytic		
	r: 0			Vegetation		
Total Cove				Present? Yes   No		

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SOIL Sampling Point: SW13\_T120\_04 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:<sup>3</sup> **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Gleyed Without Hue 5Y or Redder 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) <sup>3</sup> 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) <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 hydrophytic vegetation and inundation. HYDROLOGY

HIDROLOGI						
Wetland Hydrology Indica	tors:				Secondary Indicators (two or more are required)	
Primary Indicators (any one is sufficient)					Water Stained Leaves (B9)	
✓ Surface Water (A1)			☐ Inundation Visible on Aerial Imager	y (B7)	☐ Drainage Patterns (B10)	
High Water Table (A2)			☐ Sparsely Vegetated Concave Surfac	e (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 O	Depth (inches):			
Water Table Present?	Yes $\bigcirc$	No 💿	Depth (inches):	Wetland Hydro	ology Present? Yes 💿 No 🔾	
Saturation Present? (includes capillary fringe)	$_{Yes}  \cap $	No •	Depth (inches):			
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:						
Remarks:						
I						

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