## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 07-Aug-13		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T142_07		
nvestigator(s): WAD, RWM		Landform (hillside, terrace, hummocks etc.): pond /lake				
Local relief (concave, convex, none):concave		Slope: 0.0	% / <u>0.0</u>	O e Elevation: 1195		
Subregion : Interior Alaska Mountains	Lat.: _6	33.094305754		Long.:148.296252131		
Soil Map Unit Name:				NWI classification: PUBH		
	gnificantly iturally pro	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes  No  eded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes No No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No No Pemarks:			the Sam thin a W	pled Area /etland? Yes ◉ No ◯		
Remarks:  /EGETATION - Use scientific names of plants. List	t all spe	cies in the p		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1	0			Total Number of Dominant		
2	0			Species Across All Strata:3(B)		
3.	0			Percent of dominant Species		
4				That Are OBL, FACW, or FAC: 100.0% (A/B)		
5. Total Cover:	0			Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	20%	of Total Cover:	0	OBL Species5 x 1 =5		
1	0			FACW Species 3 x 2 = 6		
2.	0			FAC Species0 x 3 =0		
3.	0			FACU Species 0 x 4 = 0		
4	0			UPL Species0 x 5 =0		
5	0			Column Totals:8 (A)11 (B)		
6	0			Prevalence Index = B/A = 1.375		
7	0			Prevalence Index = B/A =1.375_		
8				Hydrophytic Vegetation Indicators:		
9.				✓ Dominance Test is > 50%		
10				✓ Prevalence Index is ≤3.0		
Total Cover:  Herb Stratum 50% of Total Cover:	0 20%		0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
Carex aquatilis	3	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2. Carex saxatilis	3	<b>✓</b>	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3. Hippuris vulgaris	2		OBL	be present, unless disturbed of problematic.		
4				Plot size (radius, or length x width)		
5				% Cover of Wetland Bryophytes		
6				(Where applicable)		
7. 8.	0			% Bare Ground  Total Cover of Bryophytes		
9.	0			Total cover of bryophytes		
	0			Hydrophytic		
10						
Total Cover:	8			Vegetation Present? Yes ● No ○		

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SOIL Sampling Point: SW13\_T142\_07 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:** 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) <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: pond, assume hydric soil. HYDROLOGY

HIDROLOGI							
Wetland Hydrology Indicators:					Secondary Indicators (two or more are required)		
Primary Indicators (any one is sufficient)			☐ Water Stained Leaves (B9)				
✓ Surface Water (A1)		ry (B7)	Drainage Patterns (B10)				
High Water Table (A2) Sparsely Vegetated Concave Surface		ce (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)	Sediment Deposits (B2) Dry-Season Water Table (C2)			Stunted or Stressed Plants (D1)			
☐ Drift Deposits (B3)	Drift Deposits (B3)			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): 48				
Water Table Present?	Yes $\bigcirc$	No 💿	Depth (inches):	Wetland Hydrology Present? Yes ● No ○			
Saturation Present? (includes capillary fringe)	Yes $\bigcirc$	No •	Depth (inches):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:							
Remarks:							
shallow lake with sandy bottom, designated slope wetland based on connection to surrounding extensive wetlands.							
Similow lake with samely bottom, designated slope wething based on connection to surrounding extensive wethings.							

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