## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 02-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T177_11
nvestigator(s): BAB		Landform (hill	side, terrac	ee, hummocks etc.): pond
Local relief (concave, convex, none): concave				° Elevation: 1018
Subregion : Interior Alaska Mountains		63.077692128		Long.: -148.101454368 Datum: WGS84
Soil Map Unit Name:		30.077002120	<i></i>	NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this	time of voor	yos.	● No ○	
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology , or Hydrology , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes  ● No  ○ eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes  No		le	the Sam	ipled Area
Hydric Soil Present? Yes   No			thin a W	-
Wetland Hydrology Present? Yes   No	$\mathcal{L}$	W	iliiii a vv	etiality 165 a 110 a
Remarks:  /EGETATION - Use scientific names of plants. I	ist all spe	cies in the	plot.	Dominance Test worksheet:
T 61	Absolute	Dominant		Number of Dominant Species
Tree Stratum  1.	<u>% Cover</u> 0	Species?	Status	That are OBL, FACW, or FAC:  0 (A)
				Total Number of Dominant
2				Species Across All Strata:0 (B)
4				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.		Ī		
Total Cove				Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	: 0	
				OBL Species $0 \times 1 = 0$ FACW Species $0 \times 2 = 0$
1.				FAC Species 0 x 3 = 0
2. 3.	•			FACU Species 0 x 4 = 0
. —				UPL Species 0 x 5 = 0
5.				
6.		$\overline{\Box}$		Column Totals: 0 (A) 0 (B)
7	0			Prevalence Index = B/A = 1.000
8.				Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cove  Herb Stratum 50% of Total Cover:		of Total Cover	.: 0	Morphological Adaptations <sup>1</sup> (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				Plot size (radius, or length x width)
5	0			% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8.				Total Cover of Bryophytes
9.				
10Total Cove				Hydrophytic Vegetation
		(		Present? Yes  No
50% of Total Cover:	0 20%	of Total Cover:	: 0	ricaciic: ica a ita a

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SOIL Sampling Point: SW13\_T177\_11 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 Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) **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			
Wetland Hydrology Indica	itors:		Secondary Indicators (two or more are required)
Primary Indicators (any one i	is sufficient)		Water Stained Leaves (B9)
✓ Surface Water (A1)		✓ Inundation Visible on Aerial Imag	ngery (B7) Drainage Patterns (B10)
High Water Table (A2)		✓ Sparsely Vegetated Concave Surf	rface (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)	ı		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes ● No ○	Depth (inches): 100	
Water Table Present?	Yes O No 💿	Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)	Yes O No 💿	Depth (inches):	
Describe Recorded Data (stre	am gauge, monitor w	ell, aerial photos, previous inspection) if a	available:
Remarks:			

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