WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T178_03
Investigator(s): BAB		Landform (hills	side, terrac	e, hummocks etc.): Pond
Local relief (concave, convex, none): concave		Slope:	% / 2.7	° Elevation: 111
Subregion : Interior Alaska Mountains	Lat.:	63.054938436	4	Long.: -148.310244917 Datum: NAD83
Soil Map Unit Name:		00.00 .000 .00		NWI classification: PUBH
Are Vegetation , Soil , or Hydrology na	gnificantl aturally p	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No No		Is	the Sam	pled Area
Hydric Soil Present? Yes No			thin a W	-
Wetland Hydrology Present? Yes No Remarks: several depressions with the same substrate in a lin	no alona	l l		
appears to be a lateral morraine. water level about VEGETATION - Use scientific names of plants. List	t all spe	elow high wate	olot.	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1.		. 📙		Total Number of Dominant
2	0			Species Across All Strata: 0 (B)
4.	0	. 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover:	0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0	20%	6 of Total Cover:	0	OBL Species 0 x 1 = 0
1	0			FACW Species 0 x 2 = 0
1	0			FAC Species 0 x 3 = 0
3.	0			FACU Species 0 x 4 = 0
4.	0			UPL Species 0 x 5 = 0
5.	0			Column Totals:0 (A)0 (B)
6.	0			(, (,
7.	0			Prevalence Index = B/A =
8	0	. 📙		Hydrophytic Vegetation Indicators:
9	0	. 📙		Dominance Test is > 50%
10	0	. \square		Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:	0 209	% of Total Cover:	: _ 0	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation ¹ (Explain)
2.				¹ 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)
5	0	. 📙		% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9.				
10	0			Hydrophytic Venetation
	0	of Total Cover:	0	Hydrophytic Vegetation Present? Yes No No

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SOIL Sampling Point: SW13_T178_03 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 ¹ ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix Indicators for Problematic Hydric Soils:3 **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) ³ 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) ⁴ 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 Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) ✓ Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) 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): 48 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ●

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Depth (inches):

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

(includes capillary fringe)

Remarks: