WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 02-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T177_11
nvestigator(s): BAB	ce, hummocks etc.): pond			
Local relief (concave, convex, none): concave		Slope:		3 ° Elevation: 101
Subregion : Interior Alaska Mountains	Lat ·	63.077674198		Long.: -148.101534101 Datum: NAD83
Soil Map Unit Name:		00.077074100	50	NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this	time of voor	o Voc	● No ○	
Are Vegetation , Soil , or Hydrology	significantly naturally pr	y disturbed? roblematic?	Are "N (If nee	Normal Circumstances" present? Yes No No eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No	C			
Hydric Soil Present? Yes ● No	pled Area			
Wetland Hydrology Present? Yes No	/etland? Yes ● No ○			
Remarks: /EGETATION - Use scientific names of plants. I	ist all sne	ocias in the	nlot	
PLOCIATION - Ose scientific flames of plants.	•		•	Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC:0(A)
2.				Total Number of Dominant Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4.				That Are OBL, FACW, or FAC:
5.	0			Prevalence Index worksheet:
Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species $0 \times 1 = 0$
1.	0			FACW Species 0 x 2 = 0
				FAC Species 0 x 3 = 0
	•			FACU Species 0 x 4 = 0
3. 4.				UPL Species 0 x 5 = 0
5.				Column Totals:0 (A)0 (B)
6.	•			
7.	0			Prevalence Index = B/A = 1.000
8.				Hydrophytic Vegetation Indicators:
9.	0			☐ Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cove Herb Stratum 50% of Total Cover:		6 of Total Cove	·:0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation ¹ (Explain)
2	0_			¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Plot size (radius, or length x width)
5	•			% Cover of Wetland Bryophytes
6	•			(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9	- 0			
10Total Cove	- <u>- 0</u>			Hydrophytic Vegetation
i utal cove	· · _ U		: 0	Present? Yes • No

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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 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:** 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) ³ 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) 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 Indica	ators:			Secondary Indicators (two or more are required)
Primary Indicators (any one	is sufficient)			Water Stained Leaves (B9)
✓ Surface Water (A1)		✓ Inundation Visible on Aerial Imag	gery (B7)	Drainage Patterns (B10)
High Water Table (A2)		✓ Sparsely Vegetated Concave Surf	face (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 C	Depth (inches): 100		
Water Table Present?	Yes O No 🖲	Depth (inches):	Wetland Hydr	ology Present? Yes 💿 No 🔾
Saturation Present? (includes capillary fringe)	Yes O No •	Depth (inches):		
Describe Recorded Data (stre	am gauge, monitor v	vell, aerial photos, previous inspection) if a	vailable:	
Remarks:				
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