WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 31-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T154_03
nvestigator(s): BAB		Landform (hill	lside, terrac	ce, hummocks etc.): lake
Local relief (concave, convex, none): concave		Slope:		8 ° Elevation: 113
Subregion : Interior Alaska Mountains	Lat:	63.237856300		Long.: -148.371246457 Datum: NAD83
Soil Map Unit Name:		30.20700000		NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this	time of voor) Voc	● No ○	
Are Vegetation □ , Soil □ , or Hydrology □ Are Vegetation ☑ , Soil ☑ , or Hydrology □	significantly naturally pr	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes No eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho		ipiirig poirit	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No		le	the Sam	ipled Area
- Tyung com Frederich	Hydric Soil Present? Yes Soil No Company within a W			
Wetland Hydrology Present? Yes No Remarks: outlet at 180 degrees the lake sits at the top of		VV	itiiiii a vv	etiana:
/EGETATION - Use scientific names of plants. I	ist all spe	cies in the		Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
1.				Total Number of Dominant
2	0			Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5				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 x 1 =0
1	0			FACW Species 0 x 2 = 0
2	0			FAC Species0 x 3 =0
3.	0			FACU Species
4	0			UPL Species <u>0</u> x 5 = <u>0</u>
5				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:	0 20%	of Total Cove	r: <u>0</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1				✓ Problematic Hydrophytic Vegetation ¹ (Explain)
2.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3				
4. 5.				Plot size (radius, or length x width)
6				% Cover of Wetland Bryophytes (Where applicable)
7.	•			% Bare Ground
8.				Total Cover of Bryophytes
9.				
	0			Hydrophytic
10				
10Total Cover:				Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW13_T154_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 ● 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: