WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	ka-Susitna Borough Sampling Date: 23-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T311_05
nvestigator(s): SLI, ATH	L	andform (hill	side, terrac	ce, hummocks etc.): Pond
Local relief (concave, convex, none): concave) ° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this	time of year?	Vec	● No ○	
Are Vegetation \square , Soil \square , or Hydrology \square	significantly			Iormal Circumstances" present? Yes No No
Are Vegetation ✓ , Soil ✓ , or Hydrology ☐				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh		oling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	0			
Hydric Soil Present? Yes ● No	yulic Soil Plesent?			pled Area
Wetland Hydrology Present? Yes ● No	0	wi	thin a W	/etland? Yes ● No ○
Remarks: Small pond at head of wetland/pond complex. I	Lacustrine/dep	ressional sys	tem gradin	ng into lowland/slope complex.
/EGETATION - Use scientific names of plants.	List all spec	ies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1	0			That are OBL, FACW, or FAC:
2	0			Species Across All Strata:0(B)
3.	0			Percent of dominant Species
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5	0			Prevalence Index worksheet:
Total Cove				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	<u>0</u> 20% c	of Total Cover:	0	OBL Species <u>0</u> x 1 = <u>0</u>
1	0			FACW Species 0 x 2 = 0
	•			FAC Species <u>0</u> x 3 = <u>0</u>
3	0			FACU Species <u>0</u> x 4 = <u>0</u>
4.	0			UPL Species x 5 =0
5	0			Column Totals: 0 (A) 0 (B)
6				Prevalence Index = B/A = 0,000
7	0			
8				Hydrophytic Vegetation Indicators:
9				☐ Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Total Cover: 50% of Total Cover:		of Total Cover	:0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation (Explain)
2				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	_ —			
10Total Cove				Hydrophytic Vegetation
		of Total Cover:	0	Present? Yes No
50% of Total Cover: Remarks: Unvegetated pond.		of Total Cover:	0	

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SOIL Sampling Point: SW15_T311_05 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: **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: Inundated. 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) Drainage Patterns (B10) ✓ Inundation Visible on Aerial Imagery (B7) 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): Yes ○ No ● Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks:

Pond at head of wetland/pond complex.