WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 19-Aug-15
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T321_04
vestigator(s): SLI, ATH		Landform (hill	side, terrac	ee, hummocks etc.): pond
ocal relief (concave, convex, none):		Slope: 0.0	% / 0.0) ° Elevation:
ubregion: Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
il Map Unit Name:	_			NWI classification: PUBH
e climatic/hydrologic conditions on the site typical for this tir	me of vear	? Yes	No ○	(If no, explain in Remarks.)
Are Vegetation \square , Soil \square , or Hydrology \square s	significantly naturally pr	y disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes ● No ○				
Hydric Soil Present? Yes ● No ○		Is	the Sam	ipled Area
Wetland Hydrology Present? Yes ● No ○		wi	thin a W	etland? Yes No
Remarks:		!		
EGETATION - Use scientific names of plants. Lis	st all spe	ecies in the	plot.	Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	0		Status	That are OBL, FACW, or FAC:0(A)
2	0		-	Total Number of Dominant Species Across All Strata: 0 (B)
2	0	П		' ' '
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC:
5.	0			Prevalence Index worksheet:
Total Cover:	0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0
1	0			FACW Species 0 x 2 = 0
2.				FAC Species 0 x 3 = 0
3.				FACU Species 0 x 4 = 0
4.				UPL Species <u>0</u> x 5 = <u>0</u>
5.				Column Totals: 0 (A) 0 (B)
6.	_			
7	0			Prevalence Index = B/A =0.000_
8	0			Hydrophytic Vegetation Indicators:
9				Dominance Test is > 50%
10.				Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:		6 of Total Cover	:0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation (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		П		Hadaaa kada
Total Cover:		_		Hydrophytic Vegetation
TULAI COVEL.				Present? Yes • No •

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SOIL Sampling Point: SW15_T321_04 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: inundated 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) 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): 36 Yes O 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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total pond depth unknown, estimate over 2m based on lack of rooted vegetation. D2- lacustrine feature.

Remarks: