## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T317_04
nvestigator(s): GVF		Landform (hills	side, terrac	e, hummocks etc.): Pond
Local relief (concave, convex, none): flat		Slope: 0.0	% / 0.0	° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: PUBHb
Are climatic/hydrologic conditions on the site typical for this time	o of year	yes (	● No ○	
		disturbed?		ormal Circumstances" present? Yes No
		oblematic?		ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showi	ng sam	pling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○		_		
Hydric Soil Present? Yes ● No ○				pled Area
Wetland Hydrology Present? Yes ● No ○		wi	thin a W	etland? Yes   No
Remarks:				
/EGETATION - Use scientific names of plants. List	all spe	cies in the p	plot.	
,	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1.				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: 0.0% (A/B)
5				Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0	20%	of Total Cover:	0	OBL Species x 1 =
1				FACW Species <u>0</u> x 2 = <u>0</u>
2.				FAC Species <u>0</u> x 3 = <u>0</u>
3.				FACU Species x 4 =0
4				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 Cover:				☐ Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:	<u>0</u> )20%	of Total Cover:	: 0	Morphological Adaptations (Plovide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation (Explain)
2.	0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	0			be present, unless disturbed or problematic.
4.	0			Platet of a first state of the
5.	0			Plot size (radius, or length x width)  4x8m  Cover of Wetland Bryophytes
6	0			(Where applicable)
7	0			% Bare Ground
8	0			Total Cover of Bryophytes 0
9	0			
	0			Hydrophytic
10				
10	0	-47-4-10	0	Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW15\_T317\_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 <sup>1</sup> <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix <sup>2</sup> 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) <sup>3</sup> 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) <sup>4</sup> 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): 16 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches):

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Depth (inches):

Saturation Present?

Remarks:

(includes capillary fringe)

Yes ○ No ●

pond depth estimated at 16in deep in vegetated fringe, unknown total depth.

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