## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 10-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T135_02
nvestigator(s): JER		Landform (hill	side, terrac	ce, hummocks etc.): Undulating
Local relief (concave, convex, none): flat		Slope:		2 ° Elevation: 101
Subregion : Southcentral Alaska	Lat.:	62.887766837	 '6	Long.: -148.884049892 Datum: NAD83
Soil Map Unit Name:		02.000000.		NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this tim	e of vea	r? Yes	● No ○	
Are Vegetation, Soil, or Hydrology si				Normal Circumstances" present? Yes  No
Are Vegetation ☐ , Soil ☑ , or Hydrology ☐ na	-	-		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	iiiy sai	nping point	locations	s, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes  No  Hydric Soil Present? Yes  No		Is	the Sam	pled Area
.,,			thin a W	
Wetland Hydrology Present? Yes  No  Remarks: small, slow moving creek connecting lakes upstreal	m and d	Į.		
1ft deep, continuous but diffuse thru rocks		,g	,	
 VEGETATION - Use scientific names of plants. Lis	t all sa	osios in the	nlot	
				Dominance Test worksheet:
	Absolute % Cover		Indicator Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC:1 (A)
2.	0			Total Number of Dominant Species Across All Strata: 1 (B)
3.	0			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover:	0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	20%	6 of Total Cover:	0	OBL Species x 1 =
1	0			FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.				FACU Species <u>0</u> x 4 = <u>0</u>
4	0	. 📙		UPL Species <u>0</u> x 5 = <u>0</u>
5	0	. 📙		Column Totals:1 (A)1 (B)
6	0	-		Prevalence Index = B/A = 1.000
7	0	- 📙		
8.	0	. 📙		Hydrophytic Vegetation Indicators:
9	0	- 📙		☐ Dominance Test is > 50%  ✓ Prevalence Index is ≤ 3.0
10Total Cover:	0			
Herb Stratum 50% of Total Cover:			:0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Carex aquatilis	1	✓	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3	0	. 📙		be present, unless disturbed or problematic.
4		. 📙		Plot size (radius, or length x width) 2x10m
5	0			% Cover of Wetland Bryophytes
6	0			(Where applicable)
		. 📙		% Bare Ground
7	Λ	1 1		Total Cover of Bryophytes
8	0			
8. 9.	0 0			
8	0 0 0			Hydrophytic Vegetation
8. 9.	0 0 0 1 .5 20%	-		

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SOIL Sampling Point: SW13\_T135\_02 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: **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: **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): 12 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): 0 Saturation Present? Yes ○ No ● Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks: