WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T347_04
	gator(s): AFW		Landform (hills	side, terrac	e, hummocks etc.): Toeslope
Local r	elief (concave, convex, none): none		Slope: 5.2	% / 3.0	° Elevation:
	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
_	p Unit Name:				NWI classification: PUSC
	natic/hydrologic conditions on the site typical for this tii	mo of voor	? Yes	■ No ○	
Are V	egetation 🔲 , Soil 🔲 , or Hydrology 🔲 s	significantly	y disturbed? roblematic?	Are "N	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
CLIBAR					
SUMIN	MARY OF FINDINGS - Attach site map show		ipling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No		lo	the Com	upled Area
Hydric Soil Present? Yes No			Is the Sampled Area within a Wetland? Yes ● No ○		
	Wetland Hydrology Present? Yes 💿 No 🗀)	Wi	tnin a vv	etiand?
Rema	rks: small spring at base of slope, whitish deposits in	spring			
VEGE	TATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
1.					Total Number of Dominant
2.					Species Across All Strata: (B)
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					
J.	Total Cover:				Prevalence Index worksheet:
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
			OI 10tal co.c		OBL Species 0 x1 = 0
	Salix pulchra			FACW	FAC Species 8 x 2 = 16
2.					FAC Species 0 x 3 = 0 FACU Species 0 x 4 = 0
3.					FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0
4. 5.					
6.					Column Totals: <u>8</u> (A) <u>16</u> (B)
7.					Prevalence Index = B/A =
8.					Hydrophytic Vegetation Indicators:
					Dominance Test is > 50%
					✓ Prevalence Index is ≤3.0
	Total Cover: 50% of Total Cover:		6 of Total Cover	: 0.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Arctagrostis latifolia	5	✓	FACW	Problematic Hydrophytic Vegetation (Explain)
2.		0			¹ Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
4.		0			Plot size (radius, or length x width) _3 m
		•			% Cover of Wetland Bryophytes25
		_			(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
		0			
10.	Total Cover:				Hydrophytic Vegetation
	i otai cover.				
	50% of Total Cover:	2.5 20%	of Total Cover:	1	Present? Yes • No •

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SOIL Sampling Point: SW15_T347_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, no pit **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): 2 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: Remarks: D2--toeslope.

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