WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point:SW13_T143_06
nvestigator(s): WAD, RWM	l	Landform (hills	side, terrac	e, hummocks etc.): depression
Local relief (concave, convex, none): concave		Slope:	%/ 1.9	e Elevation: 109
Subregion : Interior Alaska Mountains	Lat.: 6	3.218645573		Long.: -148.220670463 Datum: NAD83
Soil Map Unit Name:		NWI classification: PUBH		
Are climatic/hydrologic conditions on the site typical for this t	ima of voor		• No ()	(If no, explain in Remarks.)
	significantly	disturbed?	Are "N	ormal Circumstances" present? Yes \bigcirc No \bigcirc ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No)			· · ·
Hydric Soil Present? Yes • No		ls	the Sam	pled Area
Wetland Hydrology Present? Yes No		wi	thin a W	etland? Yes \odot No \bigcirc
Remarks: Another small subalpine tarn, no evidence of acti		outlets		
VEGETATION - Use scientific names of plants. L	ict all an a	ciac in the .		
				Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant Species Across All Strata: 1 (B)
3 4	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
4. 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 $7 \times 1 = 7$
1.	0			FACW Species $0 \times 2 = 0$
				FAC Species $0 \times 3 = 0$
				FACU Species $0 \times 4 = 0$
3. 4.	•			UPL Species 0 x 5 = 0
5.				Column Totals: 7 (A) 7 (B)
6.				
7.				Prevalence Index = B/A = <u>1.000</u>
8.	0			Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10	0			✓ Prevalence Index is \leq 3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover:	0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Sparganium hyperboreum	5	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Eriophorum angustifolium	1		OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Carex aquatilis	-		OBL	be present, unless disturbed or problematic.
4				Plot size (radius, or length x width) <u>10m</u>
5				% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9				Under an best in
10Total Cover				Hydrophytic Vegetation
50% of Total Cover:		of Total Cover:	1.4	Present? Yes O No O
Remarks: small patch of zostera, narrow sedge margins.				

SOIL

Image: Soli Indicators: Indicators for Problematic Hydric Solis. ³ Hydric Soli Indicators: Indicators for Problematic Hydric Solis. ³ Image: Hister Explored n(A2) Alaska Color Change (TA4) Histic Explored n(A2) Alaska Alpine swales (TA5) Image: Hister Explored n(A2) Alaska Redox With 2.5Y Hue Image: Hister Explored n(A2) Alaska Redox With 2.5Y Hue Image: Hister Explored n(A2) Alaska Redox With 2.5Y Hue Image: Hister Explored n(A2) Alaska Gleyed Nith 2.5Y Hue Image: Alaska Gleyed Alaska Gleyed Nith 2.5Y Hue Other (Explain in Remarks) Image: Alaska Gleyed Pores (A12) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Alaska Redox (A14) Image: Alaska Redox (A14) Image: Alaska Redox (A14) Gleyed Pores (A15) Alaska Redox (A14) Hydric Soil Present? Yes: Depth (inches): No O Remarks: pond, assume hydric soil.	Depth (inches) Color	Matrix (moist) %	Re Color (moist)	dox Features <u>%</u> Type ¹	 2	Texture	Remarks	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ²		(moist) %		<u>% Type</u>	LOC	Texture	Kenturko	
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Image: solution of Histel (A1) Image: Alaska Clore Change (TA1) Image: Alaska Cleved Without Hue SY or Redder Underlying Layer Image: Hydrogen Sulfide (A4) Image: Alaska Applie swales (TA5) Image: Mithout Hue SY or Redder Image: Hydrogen Sulfide (A4) Image: Alaska Redox With 2.SY Hue Image: Mithout Hue SY or Redder Image: Alaska Gleyed Naise Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Alaska Gleyed Nores (A13) Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Alaska Gleyed Nores (A13) Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Alaska Redox (A14) Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Alaska Redox (A14) Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Alaska Redox (A14) Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder Image: Mithout Hue SY or Redder	¹ Type: C=Concentration	n. D=Depletion. RM=	Reduced Matrix ² Location	n: PL=Pore Lining. R	C=Root Cha	annel. M=Matrix		
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□ 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: Surface Water Present? Yes ● No ● Depth (inches): 24 Water Table Present? Yes ● No ● Depth (inches): 0 Saturation Present? Yes ● No ● Depth (inches): 0								
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□ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes<		50	🔲 Other (Expla	in in Remarks)				
□ Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ● No ● Depth (inches): 24 Water Table Present? Yes ● No ● Depth (inches): 0 Wetland Hydrology Present? Yes ● No ● Saturation Present? Yes ● No ● Depth (inches): 0 Wetland Hydrology Present? Yes ● No ●		B4)						
Field Observations: Yes No Depth (inches): 24 Surface Water Present? Yes No Depth (inches): 24 Water Table Present? Yes No Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0		(DC)						
Surface Water Present? Yes No Depth (inches): 24 Water Table Present? Yes No Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0		(B6)				► FAC-fieuu d	ו lest (כט)	
Water Table Present? Yes No Depth (inches): 0 Saturation Present? Yes No Depth (inches): 0))4				
Saturation Present? Vec No Perth (inches): 0			1 (25): 24				
		_	- Depart (mene	es): 0	Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcup$	
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	(includes capillary fringe	2)		•				

Remarks:

estimate depth of surface water, overall shallow.