## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-13	
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T179_03	
Investigator(s): WAD, RWM		Landform (hillside, terrace, hummocks etc.): depression			
Local relief (concave, convex, none): none		Slope: 0.0	% / 0.0	O ° Elevation: 1211	
Subregion : Interior Alaska Mountains	Lat.:	63.151255488		Long.: -148.332825899 Datum: WGS84	
Soil Map Unit Name:	_	00.101200100		NWI classification: PUBH	
Are climatic/hydrologic conditions on the site typical for this ti Are Vegetation , Soil , or Hydrology	significantly	y disturbed?	Are "N	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○	
Are Vegetation U , Soil U , or Hydrology U	naturally pr	oblematic?	(If nee	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map sho	wing sam	npling point	locations	s, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes   No C					
Hydric Soil Present? Yes   No C				pled Area	
Wetland Hydrology Present? Yes   No ○		wi	thin a W	/etland? Yes ● No ○	
, 0,					
Remarks: subalpine tarn, small stream inlet no obvious st	urrace wate	er outiet.			
VEGETATION - Use scientific names of plants. L	ist all spe	cies in the	plot.		
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species	
1	0_			That are OBL, FACW, or FAC: 2 (A)	
2.	0			Total Number of Dominant Species Across All Strata: 2 (B)	
3.				Percent of dominant Species	
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)	
5	0			Prevalence Index worksheet:	
Total Cover	: <u> </u>			Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 5 x 1 = 5	
1	0			FACW Species 2 x 2 = 4	
2.				FAC Species0 x 3 =0	
3.	_			FACU Species0 x 4 =0	
4.	0			UPL Species 0 x 5 = 0	
5.	0			Column Totals:7 (A)9 (B)	
6.					
7.	•			Prevalence Index = B/A = 1.286	
8	0			Hydrophytic Vegetation Indicators:	
9	0			✓ Dominance Test is > 50%	
10	0			✓ Prevalence Index is ≤3.0	
Total Cover		/ (T . LC	_	☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in	
Herb Stratum 50% of Total Cover:		_		Remarks or on a separate sheet)	
Carex saxatilis	2	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
	1		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Eriophorum angustifolium	4		OBL	be present, anness distance of problemate.	
Eriophorum scheuchzeri	4				
Eriophorum scheuchzeri  4.				Plot size (radius, or length x width) <u>10m</u>	
<ul><li>3. Eriophorum scheuchzeri</li><li>4.</li><li>5.</li></ul>	0			% Cover of Wetland Bryophytes	
<ul><li>3. Eriophorum scheuchzeri</li><li>4.</li><li>5.</li><li>6.</li></ul>	0			% Cover of Wetland Bryophytes (Where applicable)	
3. Eriophorum scheuchzeri 4. 5. 6. 7.	0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground	
3. Eriophorum scheuchzeri 4. 5. 6. 7. 8.	0 0			% Cover of Wetland Bryophytes (Where applicable)	
3. Eriophorum scheuchzeri 4. 5. 6. 7. 8. 9.	0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes	
3. Eriophorum scheuchzeri 4. 5. 6. 7. 8.	0 0 0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground	

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SOIL Sampling Point: SW13\_T179\_03 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: no pit, describing lake. **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): 48 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches):

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

Remarks:
shallow permanently flooded lake. talus substrate.

Depth (inches):

Saturation Present?

(includes capillary fringe)

Yes ○ No ●

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