WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15	
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T315_09	
vestigator(s): EKJ, SCB		Landform (hill	side, terrac	e, hummocks etc.): drainage	
ocal relief (concave, convex, none): none		Slope: 0.0	% / 0.0	° Elevation:	
ubregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84	
bil Map Unit Name:				NWI classification: PUBH	
re climatic/hydrologic conditions on the site typical for this time	o of woor'	o Vec	● No ○	(If no, explain in Remarks.)	
Are Vegetation , Soil , or Hydrology signare Vegetation , Soil , or Hydrology na UMMARY OF FINDINGS - Attach site map showi	nificantly turally pr	y disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No dedd, explain any answers in Remarks.)	
Hydrophytic Vegetation Present? Yes No		la la	tha Cam	mlad Avaa	
Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes ● No ○			
Wetland Hydrology Present? Yes ● No ○		W	tnin a w	retiand? Tes Sino C	
Remarks: small pond within tall alder/willow drainage					
	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species	
Tree Stratum 1.	% Cover	Species?	Status	That are OBL, FACW, or FAC:3 (A)	
2				Total Number of Dominant	
3				Species Across All Strata:3 (B)	
1		П		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.					
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of Total Cover: 0	20%	of Total Cover:	0	OBL Species 7 x 1 = 7	
				FACW Species 2 x 2 = 4	
1	-			FAC Species 0 x 3 = 0	
2. 3.		П		FACU Species 0 x 4 = 0	
4.		П		UPL Species 0 x 5 = 0	
5.				Column Totals: 9 (A) 11 (B)	
6.					
7.				Prevalence Index = B/A = 1.222	
8.				Hydrophytic Vegetation Indicators:	
9				✓ Dominance Test is > 50%	
10				✓ Prevalence Index is ≤3.0	
Total Cover: Herb Stratum 50% of Total Cover:	0 20%	_	:0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
Sparganium angustifolium	5	✓	OBL	Problematic Hydrophytic Vegetation (Explain)	
2. Carex saxatilis		✓	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
3. Eriophorum angustifolium		✓	OBL	be present, unless disturbed or problematic.	
4				Plot size (radius, or length x width)	
5				% Cover of Wetland Bryophytes	
6				(Where applicable)	
7. 8.		П		% Bare Ground 95	
o .				Total Cover of Bryophytes	
9	0			Hydronhytic	
	0			Hydrophytic Vegetation Present? Yes No	

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T315_09 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:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **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 Gleyed (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. assume hydric soil.

HYDROLOGY			
Wetland Hydrology Indica	tors:		Secondary Indicators (two or more are required)
Primary Indicators (any one i	s sufficient)		Water Stained Leaves (B9)
✓ Surface Water (A1)		✓ Inundation Visible on Aerial Imagery	y (B7) Drainage Patterns (B10)
High Water Table (A2)		Sparsely Vegetated Concave Surface	e (B8) Oxidized Rhizospheres along Living Roots (C3)
Saturation (A3)		Marl Deposits (B15)	Presence of Reduced Iron (C4)
☐ Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)
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:	_	_	
Surface Water Present?	Yes 🌘 No	Depth (inches): 12	
Water Table Present?	Yes O No	Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)	Yes O No	Depth (inches):	
Describe Recorded Data (stre	am gauge, monito	or well, aerial photos, previous inspection) if avai	lable:
Remarks:			
bare sediments at pond fringe	suggest water le	vels lower than usual.	

U.S. Army Corps of Engineers Alaska Version 2.0