WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sa	ampling Date: 24-Aug-15
Applicant/Owner: Alaska Energy Authority		Sampling	Point: SW15_T323_04
Investigator(s): BAB	Landform (hill	side, terrace, hummocks etc.):	Depression
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation:	
Subregion : Cook Inlet Mountains Lat.	:	Long.:	Datum: WGS84
Soil Map Unit Name:		NWI classific	cation: PUBH
	ear? Yes ntly disturbed? problematic?	No (If no, explain in Ro Are "Normal Circumstances" pr (If needed, explain any answers)	resent? Yes 💿 No 🔿
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, importa	nt features, etc.
Hydrophytic Vegetation Present? Yes No	Is	the Sampled Area	

within a Wetland?

Yes

No

Remarks:

Hydric Soil Present?

Wetland Hydrology Present?

VEGETATION - Use scientific names of plants. List all species in the plot.

Yes 💿 No 🔿

Yes

No O

	Absolute Dominant Indicato		Indicator	Dominance Test worksheet:				
Tre	e Stratum			Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)	
1.			_	0				
2.				0			Total Number of Dominant Species Across All Strata: 0 (B)	
3.				0			Percent of dominant Species	
4.			_	0			That Are OBL, FACW, or FAC: 0.0% (A/B)	
5.			_	0			Prevalence Index worksheet:	
		Total Cover	_	0			Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20% o	of Total Cover:	0	OBL Species $0.4 \times 1 = 0.4$	
1.				0			FACW Species $0 \times 2 = 0$	
				0			FAC Species $0 \times 3 = 0$	
3.				0			FACU Species 0 x 4 = 0	
4.				0			UPL Species 0 x 5 = 0	
5.				0			Column Totals: <u>0.4</u> (A) <u>0.400</u> (B)	
6.				0				
				0			Prevalence Index = B/A = <u>1.000</u>	
				0			Hydrophytic Vegetation Indicators:	
				0			Dominance Test is > 50%	
				0			✓ Prevalence Index is ≤3.0	
		Total Cover:		0			Morphological Adaptations (Provide supporting data in	
Her	b Stratum	50% of Total Cover:	0	_ 20% (of Total Cover:	0	Remarks or on a separate sheet)	
1.	Menyanthes trifoliata			0.1		OBL	Problematic Hydrophytic Vegetation (Explain)	
2.	Nuphar polysepala			0.1		OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Carex aquatilis		-	0.1		OBL	be present, unless disturbed or problematic.	
4.	Eriophorum scheuchzeri		-	0.1		OBL	Plot size (radius, or length x width) 5m	
5.			-	0			% Cover of Wetland Bryophytes	
6.				0			(Where applicable)	
7.				0			% Bare Ground99	
8.			-	0			Total Cover of Bryophytes	
~				0				
10.				0			Hydrophytic	
		Total Cover:	_	0.4			Vegetation	
50% of Total Cover: <u>0.2</u> 20% of Total Cover: <u>0.08</u> Present? Yes No \bigcirc								
Demarker Demarker (50) total back and the second back and the second demark								

Remarks: Bareground is water. <5% total herb cover, thus no herb species considered dominant.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
Depth	Color (moist) Type ¹	Loc ²	Texture	Remarks					
(inches) Color (moist) %		LOC	Texture	Kentarko					
		,							
¹ Type: C=Concentration. D=Depletion. RM=Rec			1=Matrix						
Hydric Soil Indicators:	Indicators for Problematic Hydric So	ils: ³							
Histosol or Histel (A1)	🗌 Alaska Color Change (TA4) ⁴		Alaska Gleyed Without Hue 5Y or Redder						
Histic Epipedon (A2)	Alaska Alpine swales (TA5)	_	rlying Layer						
Hydrogen Sulfide (A4)	Alaska Redox With 2.5Y Hue	🖌 Other	(Explain in Remarks)						
Thick Dark Surface (A12)	2								
³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present									
Alaska Redox (A14)		·							
Alaska Gleyed Pores (A15)	⁴ Give details of color change in Remark	5							
Restrictive Layer (if present):									
Туре:		Hyd	ric Soil Present?	Yes 💿 No 🔿					
Depth (inches):		-							
Remarks:									
inundated pond, assume hydric soil.									
······································									
HYDROLOGY									
Wetland Hydrology Indicators:				ors (two or more are required)					
Primary Indicators (any one is sufficient)			Water Stained						
Surface Water (A1)	Inundation Visible on Aerial Imager		Drainage Patt						
High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Livi									
Saturation (A3)	Marl Deposits (B15)			educed Iron (C4)					
Water Marks (B1)	 Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) 		Salt Deposits						
Sediment Deposits (B2)	Stunted or Stressed Plants (D1)								
Drift Deposits (B3)	Other (Explain in Remarks)			. ,					
Algal Mat or Crust (B4)			Shallow Aquit						
Iron Deposits (B5)			FAC-neutral T	ohic Relief (D4)					
Surface Soil Cracks (B6)			FAC-neutral 1	est (DS)					
Field Observations: Surface Water Present? Yes • No •) Dopth (inches): 26								
Water Table Present? Yes O No		Wetland Hy	drology Present?	Yes 🖲 No 🔾					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):								

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

Remarks:

uncertain of pond depth. likely <2m due to rooted vegetation.