WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sa	ampling Date: 05-Aug-13				
Applicant/Owner: Alaska Energy Authority		Sampling	Point: SW13_T100_01				
Investigator(s): BAB	Landform (hill	Landform (hillside, terrace, hummocks etc.): pond					
Local relief (concave, convex, none): concave	Slope: 0.0	Slope: 0.0 % / 0.0 ° Elevation: 773					
Subregion : Copper River Basin La	t.: 62.621547784	Long.: -147.40501745	6 Datum: WGS84				
Soil Map Unit Name:		NWI classific	ation: PUBH				
	year? Yes antly disturbed? ly problematic?	No (If no, explain in R Are "Normal Circumstances" pr (If needed, explain any answer:	resent? Yes 🔍 No 🔿				
SUMMARY OF FINDINGS - Attach site map showing s	sampling point	locations, transects, importa	nt features, etc.				
Hydrophytic Vegetation Present? Yes No							

	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc
Re	emarks: gps point taken on southern	fringe of p	ond		

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

		Absolut	e Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.					Total Number of Dominant Species Across All Strata: 2 (B)
3.					
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			
0.	Total Cover:				Prevalence Index worksheet:
6	ling/Shrub Stratum 50% of Total Cover:			0	Total % Cover of: Multiply by:
Sap		0 20		0	OBL Species $30 \times 1 = 30$
1.		0			FACW Species <u>0</u> x 2 = <u>0</u>
2.					FAC Species x 3 =
3.		0			FACU Species <u>0</u> x 4 = <u>0</u>
4.					UPL Species x 5 =
5.					Column Totals: <u>30</u> (A) <u>30</u> (B)
-		•			
					Prevalence Index = B/A = <u>1.000</u>
					Hydrophytic Vegetation Indicators:
			_		✓ Dominance Test is > 50%
		0	_		✓ Prevalence Index is ≤ 3.0
	Total Cover:	0	-		Morphological Adaptations ¹ (Provide supporting data in
				0	Remarks or on a separate sheet)
1.	Menyanthes trifoliata	8	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Sparganium hyperboreum	4		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Utricularia minor	2		OBL	be present, unless disturbed or problematic.
4.	Potamogeton epihydrus	. 1		OBL	
5.	Caltha palustris	10	\checkmark	OBL	Plot size (radius, or length x width) <u>10m</u>
6.	Stuckenia filiformis ssp. filiformis	1		OBL	% Cover of Wetland Bryophytes (Where applicable)
7.	Hippuris vulgaris	1		OBL	% Bare Ground
8.	Utricularia macrorhiza	2		OBL	Total Cover of Bryophytes 2
9.	Potamogeton natans	1		OBL	
10.		0			Hydrophytic
	Total Cover:	30			Vegetation
	50% of Total Cover:	15 20	% of Total Cover:	6	Present? Yes \bullet No \bigcirc
Rem	arks: bare ground is water				

SOIL

Profile Description: (Describe to	the depth needed Matrix	to document the ind		the absence of Features	indicators)		
Depth (inches) Color (mo	ist) %	6 Color (m	noist)	% Type	<u>1 Loc</u> ²	Texture	Remarks
			·				
·							
¹ Type: C=Concentration. D=	Depletion. RM	=Reduced Matrix	² Location: P	L=Pore Lining	J. RC=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		Indicat	ors for Proble	ematic Hydr	ic Soils: ³		
Histosol or Histel (A1)			ka Color Chang	4		Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epipedon (A2)			ka Alpine swale			Underlying Layer	
Hydrogen Sulfide (A4)		Alasl	ka Redox With	2.5Y Hue	\checkmark	Other (Explain in Remark	s)
Thick Dark Surface (A12)	j						
Alaska Gleyed (A13)					tation, one prin tion must be pre	nary indicator of wetland h	ydrology,
Alaska Redox (A14)					·	esent	
Alaska Gleyed Pores (A15	<i>i</i>)	⁴ Give d	details of color	change in Re	marks		
Restrictive Layer (if present):							
Туре:						Hydric Soil Present	? Yes 🖲 No 🔿
Depth (inches):						•	
Remarks:							
assume hydric soil due to inur	idation and hyd	drophytic vegetati	on				
		• •					
HYDROLOGY							
Wetland Hydrology Indica	tors:					Secondary Indic	cators (two or more are required)
Primary Indicators (any one i	s sufficient)					Water Stair	ned Leaves (B9)
Surface Water (A1)		🗹 Inı	undation Visible	e on Aerial In	nagery (B7)	🗌 Drainage P	atterns (B10)
High Water Table (A2)			arsely Vegetate		urface (B8)		nizospheres along Living Roots (C3)
Saturation (A3)			arl Deposits (B1	,			f Reduced Iron (C4)
Water Marks (B1)			drogen Sulfide			Salt Deposi	
Sediment Deposits (B2)			y-Season Wate			_	Stressed Plants (D1)
Drift Deposits (B3)			her (Explain in	Remarks)			c Position (D2)
Algal Mat or Crust (B4)						Shallow Aq	
Iron Deposits (B5) Surface Soil Cracks (B6)						FAC-neutra	raphic Relief (D4)
Field Observations:						I FAC-IItuu a	ו est (כט)
Surface Water Present?	Yes 💿 🛚 N		epth (inches):	36			
Water Table Present?	Yes O N		,	50	Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Present?		20	epth (inches):		W GLIG	nu nyurology riesen	
(includes capillary fringe)	Yes \bigcirc N	lo 🔍 De	epth (inches):				

Remarks: