WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-13			
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T100_07			
nvestiç	gator(s): BAB			Landform (hillside, terrace, hummocks etc.): Swale					
_ocal r	elief (concave, convex, none): concave		5	Slope: 1.7 % / 1.0 ° Elevation: 784					
Subreg	ion : Copper River Basin	Lat	6	2.618926512	1	Long.: -147.416552883 Datum: WGS84			
Soil Ma	p Unit Name:					NWI classification: PEM1E			
Are V Are V		significa naturall	antly y pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes No Ormal Circumstances in Remarks.) ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No No Arks: 25ft wide swale connecting two PUBHs.	\supset			the Sam thin a W	pled Area etland? Yes ● No ○			
/EGE	TATION -Use scientific names of plants. L	ist all s	spec	cies in the	plot.				
		Absolu		Dominant		Dominance Test worksheet:			
	e Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:5 (A)			
1.			0		-	Total Number of Dominant			
2.			0			Species Across All Strata:5(B)			
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		-	0			That Are OBL, FACW, OF FAC. 100.076 (A/B)			
	Total Cover)			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 2	20% o	of Total Cover:	0	OBL Species <u>43</u> x 1 = <u>43</u>			
1.	Salix fuscescens		5	✓	FACW	FACW Species			
2.	Betula nana		5	✓	FAC	FAC Species <u>16</u> x 3 = <u>48</u>			
3.	Vaccinium uliginosum		3	✓	FAC	FACU Species0 x 4 =0			
4.	Picea mariana	_	2		FACW	UPL Species			
5.		_	0			Column Totals: <u>66</u> (A) <u>105</u> (B)			
6.			0			Prevalence Index = B/A = 1.591			
7.			0			11.J31			
			0			Hydrophytic Vegetation Indicators:			
			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
Her	Total Cover b Stratum 50% of Total Cover:			of Total Cover	:3	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	·		8		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Calamagrostis canadensis		8		FAC	¹ Indicators of hydric soil and wetland hydrology must			
J .	Carex aquatilis		15	✓	OBL	be present, unless disturbed or problematic.			
	Comarum palustre		15		OBL	Plot size (radius, or length x width)			
	Eriophorum scheuchzeri		5		OBL	% Cover of Wetland Bryophytes			
						, , ,			
			0			i otal Cover of Bryophytes			
			0			Hydronhydia			
10.	Total Cover			_		Vegetation			
	50% of Total Cover:			of Total Cover:	10.2	Present? Yes No			
6. 7. 8. 9.	Total Cover		0 0 0 0 0	of Total Cover:		(Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic Vegetation			

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SOIL Sampling Point: SW13_T100_07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator Matrix Redox Features							ators)		
Depth (inches)							1 2	Texture	Remarks
	Color (moi	st)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	_Loc_2		Remarks
0-16			100					Fibric Organics	
									,
¹Type: C=Co	ncentration. D=	Depletion. F	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	c Hydric So	oils: ³		
Histosol or Histel (A1) Alaska Color Change (TA4)					4)		Alaska Gleyed Without H	ue 5Y or Redder	
	pedon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer	
	Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue		Other (Explain in Remark	(S)
	k Surface (A12)								
	eyed (A13)							nary indicator of wetland h	ydrology,
Alaska Re				and an appropria	te landscap	pe position r	must be pre	esent	
	eyed Pores (A15))		⁴ Give details of c	olor chang	e in Remark	(S		
Restrictive Lay	er (if present):								
Type: froz								Hydric Soil Present	? Yes • No O
Depth (incl								,	
l									
HYDROLO	GY								
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one is	sufficient)						Water Stair	ned Leaves (B9)
Surface V	Vater (A1)			☐ Inundation V	/isible on A	erial Image	ry (B7)	Drainage P	Patterns (B10)
High Wat	er Table (A2)			Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
✓ Saturation	n (A3)			Marl Deposit	s (B15)			Presence o	of Reduced Iron (C4)
☐ Water Ma	ırks (B1)			Hydrogen Su	ulfide Odor	(C1)		Salt Depos	its (C5)
✓ Sediment	Deposits (B2)			Dry-Season	Water Tabl	le (C2)		✓ Stunted or	Stressed Plants (D1)
☐ Drift Dep	osits (B3)			Other (Expla	in in Rema	ırks)		✓ Geomorphi	ic Position (D2)
Algal Mat	or Crust (B4)							Shallow Aq	quitard (D3)
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)
Surface S	Soil Cracks (B6)							✓ FAC-neutra	ıl Test (D5)
Field Observa	ations:								
Surface Wate	r Present?	Yes \bigcirc	No 💿	Depth (inche	es):				
Water Table I	Present?	Yes	No \bigcirc	Depth (inche	es): 3		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pro (includes capi		Yes •	No O	Depth (inche	•				
-		ım gauge, n	nonitor well	l, aerial photos, pre	vious inspe	ection) if ava	ailable:		
5 1									
Remarks:			6						
looks like this of	gets flooded. soi	il deposited	on surface.						

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