WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Project		B	orough/City:	Matanusk	xa-Susitna Borough Sampling Date:20-Aug-15								
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T306_07								
nvestigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): terrace														
Local relief (concave, convex, none): hummocky Slope: 3.5 % / 2.0 ° Elevation:														
	gion : Interior Alaska Mountains		Lat.:	·		Long.: Datum: WGS84								
	ap Unit Name:		_	NWI classification: PSS1/3B										
	matic/hydrologic conditions on the site typical for /egetation \square , Soil \square , or Hydrology			?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○								
		_	,			ionnai oli odinotanoco procont.								
	•			oblematic?	`	eded, explain any answers in Remarks.)								
SUMI	MARY OF FINDINGS - Attach site map	showing	g sam	pling point	locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes	No \bigcirc												
	Hydric Soil Present? Yes Yes	No \bigcirc		Is	the Sam	pled Area								
	Wetland Hydrology Present? Yes Yes	No 🔾		wi	thin a W	/etland? Yes ◉ No ○								
Remarks: Peat terrace beside small R3UBH														
VEGE	TATION - Use scientific names of plar	nts. List a	ıll spe	cies in the	plot.									
	•					Dominance Test worksheet:								
Tre	e Stratum		solute Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.						That are OBL, FACW, or FAC:5(A)								
2.						Total Number of Dominant Species Across All Strata: 5 (B)								
3.						Percent of dominant Species								
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.						Prevalence Index worksheet:								
	Total	Cover:	0			Total % Cover of: Multiply by:								
Sap	oling/Shrub Stratum 50% of Total Cove	er: <u>0</u>	_ 20%	of Total Cover:	0	OBL Species 4 x 1 = 4								
1	Betula nana		20	✓	FAC	FACW Species 30 x 2 = 60								
2.	Rhododendron tomentosum		20	✓	FACW	FAC Species 60 x 3 = 180								
3.	Vaccinium uliginosum		15	✓	FAC	FACU Species 1 x 4 = 4								
4.	Empetrum nigrum		10		FAC	UPL Species 0 x 5 = 0								
5.	Vaccinium vitis-idaea		5		FAC	Column Totals: <u>95</u> (A) <u>248</u> (B)								
6.	Picea glauca		1		FACU									
7.	-		0			Prevalence Index = B/A =								
8.			0			Hydrophytic Vegetation Indicators:								
9.			0			✓ Dominance Test is > 50%								
10.			0			✓ Prevalence Index is ≤3.0								
			71			Morphological Adaptations (Provide supporting data in								
Her	b Stratum 50% of Total Cove	er: <u>35.5</u>	_ 20%	_	: 14.2	Remarks or on a separate sheet)								
1.	Carex bigelowii		10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)								
2.	Rubus chamaemorus		10	~	FACW	¹ Indicators of hydric soil and wetland hydrology must								
3.	Eriophorum scheuchzeri				OBL	be present, unless disturbed or problematic.								
	Carex aquatilis				OBL	Plot size (radius, or length x width) <u>10m</u>								
			0			% Cover of Wetland Bryophytes								
			0			(Where applicable)								
			0			% Bare Ground								
						Total Cover of Bryophytes								
		io hydrophytic												
			24		i	Vegetation								
		Cover: _	24 20%	of Total Cover:	4.8	Vegetation Present? Yes No								

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SOIL Sampling Point: SW15_T306_07

		ne depth nee	ded to docume	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mois		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-10	COIOI (IIIOI	,,,		color (moise)		1700		Peat			
10-14								Mucky Peat			
								,			
¹Type: C=Cor	ncentration. D=I	Depletion. I	RM=Reduced	I Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		1	Indicators for P	roblematio	Hydric So	oils: ³				
Histosol or	r Histel (A1)		[Alaska Color C	hange (TA	1)4		Alaska Gleyed Without Hu	ue 5Y or Redder		
✓ Histic Epip	edon (A2)		[Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		[Alaska Redox	With 2.5Y F	s)					
☐ Thick Dark	Surface (A12)			2							
Alaska Gle	eyed (A13)			One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	•				
	eyed Pores (A15))		4 Give details of o	color change	e in Remark	S				
Restrictive Laye	er (if present):										
Type:	,							Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stair	ned Leaves (B9)		
Surface W	Vater (A1)			☐ Inundation \	/isible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)		
High Wate	. ,			Sparsely Veg	getated Cor	cave Surfac	ce (B8)		nizospheres along Living Roots (C3)		
✓ Saturation	` '			Marl Deposit	ts (B15)				f Reduced Iron (C4)		
Water Ma				Hydrogen Su	ulfide Odor	(C1)		Salt Deposi			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
Drift Depo				U Other (Expla	in in Rema	rks)			c Position (D2)		
	or Crust (B4)							☐ Shallow Aq			
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	i Test (D5)		
Field Observa		Yes O	No (Danth (in ab.							
Surface Water				Depth (inche	es):						
Water Table F		Yes	No \bigcirc	Depth (inche	es): 10		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capi		Yes	No O	Depth (inche	es): 4						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Damanda											
Remarks:	cions with surface	o water an	d carey agus	atilis not consider	ad autonsiu	o opough to	n moot A1				
Z Smail depress	Sions with Surtat	le water an	iu carex aqua	atilis, not consider	eu extensiv	e enough to	meet AI.				

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