WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	Date: 07-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T134_07
Investigator(s): WAD, BAB	Landform (hills	ide, terrace, hummocks etc.): ridge top	
Local relief (concave, convex, none): hummocky	Slope: 1.7	% / <u>1.0</u> ° Elevation: <u>836</u>	
Subregion : Southcentral Alaska	Lat.: 62.688433886	Long.:148.74703598	Datum: WGS84
Soil Map Unit Name:		NWI classification:	Upland
	of year? Yes (ificantly disturbed? irally problematic?	 No (If no, explain in Remarks. Are "Normal Circumstances" present? (If needed, explain any answers in Rem 	ÝYes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, important feat	ures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	-	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{igodol}$
Remarks:				

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

			۵hs	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			Cover	Species?	Status	Number of Dominant Species
1.			-	0			That are OBL, FACW, or FAC:5_ (A)
2.			-	0			Total Number of Dominant Species Across All Strata: 5 (B)
3.				0			Percent of dominant Species
4.				0			That Are OBL, FACW, or FAC:100.0% (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%	of Total Cover:	0	OBL Species x 1 =
1.	Betula nana			45	\checkmark	FAC	FACW Species <u>5.2</u> x 2 = <u>10.4</u>
2.	Vaccinium uliginosum		-	20	\checkmark	FAC	FAC Species <u>76.1</u> x 3 = <u>228.3</u>
3.	Vaccinium vitis-idaea			5		FAC	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Ledum decumbens			5		FACW	UPL Species x 5 =
5.	Aretestenbyles rubre		-	5		FAC	Column Totals: 81.3 (A) 238.7 (B)
6.				1		FAC	
7.			_	0			Prevalence Index = B/A = 2.936
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is \leq 3.0
		Total Cover	: _	81			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:	40.5 20% of Total Cover:		16.2	Remarks or on a separate sheet)	
1.	Carex bigelowii			0.1	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Pedicularis labradorica			0.1	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus			0.1	\checkmark	FACW	be present, unless disturbed or problematic.
4.				0			Plot size (radius, or length x width) 10m
5.				0			% Cover of Wetland Bryophytes
6.				0			(Where applicable)
7.				0			% Bare Ground
8.				0			Total Cover of Bryophytes60
9.				0			
				0			Hydrophytic
Total Cover:							Vegetation
		50% of Total Cover:	0.15	20%	of Total Cover:	0.06	Present? Yes No
Rem	narks:						

	Color (m	oist)	%	Color (n	noist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-2									Hemic Organics		
2-7	7.5YR	2.5/3						-	Coarse Sand	subangular coarse frag	ments up to 1 incl
7-10	10YR	4/4	65	7.5YR	4/6	35	RM	M	Sandy Loam	thixotropic	
10-12	10YR	3/4	100						Sandy Loam		
					-						
¹ Type: C=Concent	tration. D	=Depletion	. RM=Red	uced Matrix	² Location	n: PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix		
Hydric Soil Indic	ators:			Indicat	ors for Pr	oblematio	: Hydric Se	oils: ³			
Histosol or Hist					ka Color Cl		4		Alaska Gleyed Without	Hue 5Y or Redder	
Histic Epipedor	. ,				ka Alpine s		-		Underlying Layer		
Hydrogen Sulfi	de (A4)			Alas	ka Redox V	Vith 2.5Y F	lue		Other (Explain in Remain	arks)	
Thick Dark Sur	face (A12	2)		3.0							
Alaska Gleyed	(A13)						ic vegetation e position i		mary indicator of wetland esent	i hydrology,	
🗌 Alaska Redox ((A14)					•					
Alaska Gleyed	Pores (A1	.5)		Give	details of co	blor change	e in Remark	S			
Restrictive Layer (if	present)	:								_	_
Type									Underla Call Duasa	nt? Yes 🔾 N	o 🖲
Type:									Hydric Soil Prese	It? Yes \cup N	0 🙂
Depth (inches): Remarks: no hydric soil indica		rved.							nyaric Soli Presel	it? fes ⊖ N	
Depth (inches): Remarks:		rved.							nyaric Soli Presel	nt? Yes ∪ N	
Depth (inches): Remarks: no hydric soil indica	tors obse								nyaric Soli Presel	nt? Yes ∪ N	
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only one secondary hydrology indicator observed