WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13
Applicant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T173_09
Investigator(s): BAB		Landform (hil	lside, terrac	e, hummocks etc.): Flat
Local relief (concave, convex, none): tussocks		Slope:		⁶ Elevation: 998
Subregion : Interior Alaska Mountains	lat [.]	63.16729534		Long.: -148.23691615 Datum: NAD83
	Lat	03.10729334	42	
Soil Map Unit Name:		0 \/aa	• No O	NWI classification: PEM1Bb
Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map sho	significantl naturally p wing san	ly disturbed? roblematic?	Are "N (If nee	 (If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ orded, explain any answers in Remarks.) s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area
Hydric Soil Present? Yes 🔍 No 🤇)			-
Wetland Hydrology Present? Yes No Remarks: an abandoned beaver dam is impacting the area		W	ithin a W	
VEGETATION - Use scientific names of plants. L			-	Dominance Test worksheet:
Tree Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant Species Across All Strata: 2 (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:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:	OBL Species $17 \times 1 = 17$
1. Salix pulchra	10	\checkmark	FACW	FACW Species 21 x 2 = 42
2.	-			FAC Species $66 \times 3 = 198$
3.				FACU Species $0 \times 4 = 0$
4.	-			UPL Species 0.1 x 5 = 0.500
5.	-			Column Totals: <u>104.1</u> (A) <u>257.5</u> (B)
6.	0			
7.	0			Prevalence Index = B/A = <u>2.474</u>
8.	0			Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10	0			✓ Prevalence Index is \leq 3.0
Total Cover Herb Stratum 50% of Total Cover:		% of Total Cove	r: <u>2</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Calamagrostis canadensis	65		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Comarum palustre	5		OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Petasites frigidus	10		FACW	be present, unless disturbed or problematic.
4. Aconitum delphiniifolium	1		FAC	Plot size (radius, or length x width) <u>10m</u>
5. Carex aquatilis			OBL	% Cover of Wetland Bryophytes
6. Eriophorum angustifolium	4		OBL	(Where applicable)
7. Polemonium pulcherrimum	0.1		UPL	% Bare Ground
8. Sanguisorba canadensis	1		FACW	Total Cover of Bryophytes
9				
10.	0			Hydrophytic
Total Cover 50% of Total Cover:		of Total Cover	10.00	Vegetation Present? Yes • No ·
Remarks:	20/0		10.02	l

SOIL

Profile Description: (Describe	Matrix		Red	lox Featu	res			
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-6							Fibric Organics	- -
6-10							Hemic Organics	
10-14	, ,						Sapric Organics	rocks at 14
¹ Type: C=Concentration.	D=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:			Indicators for Pro	oblematio	: Hydric So	oils: ³		
Histosol or Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s		-		Underlying Layer	
Hydrogen Sulfide (A4			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remar	ks)
Thick Dark Surface (A								
Alaska Gleyed (A13)	,						nary indicator of wetland I	nydrology,
Alaska Redox (A14)			and an appropriat	e landscap	e position r	nust be pre	esent	
Alaska Gleyed Pores (A15)		⁴ Give details of co	olor change	e in Remark	S		
Restrictive Layer (if preser	t)•							
Type:	c).						Hydric Soil Present	? Yes 🖲 No 🔿
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							Hydric Son Fresend	
Depth (inches):								
Depth (inches): Remarks:								
Remarks:								
Remarks:								
Remarks: IYDROLOGY Wetland Hydrology Ind								cators (two or more are required)
Remarks: IYDROLOGY Wetland Hydrology Ind Primary Indicators (any o		t)					Water Sta	ined Leaves (B9)
Remarks: IYDROLOGY Wetland Hydrology Ind Primary Indicators (any o Surface Water (A1)	ne is sufficien	t)	Inundation Vi		-	, , ,	Water Sta	ned Leaves (B9) Patterns (B10)
Remarks: IYDROLOGY Wetland Hydrology Ind Primary Indicators (any o Surface Water (A1) I High Water Table (A2)	ne is sufficien	t)	Sparsely Vege	etated Cor	-	, , ,	Water Sta	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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