WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 01-Aug-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_03
	gator(s): WAD, RWM		Landform (hill	lside, terrac	ce, hummocks etc.): Toeslope
	elief (concave, convex, none): concave		Slope: 3.5		- ·
	ion : Interior Alaska Mountains		63.22003197		Long.: -148.213384748 Datum: WGS84
_		Lat	03.22003197	<u> </u>	
	p Unit Name:			No ○	NWI classification: PSS1B
Are V Are V	egetation . , Soil . , or Hydrology . r	ignificantly naturally pr ving sam	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No No		Is	the Sam	ipled Area
	Hydric Soil Present? Yes No C			ithin a W	
	Wetland Hydrology Present? Yes ● No C		•		ctiana:
	arks: Base of small bluff, tall closed willow wetland TATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dominance Test worksheet:
Two	- Church	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	e Stratum_	0		Status	That are OBL, FACW, or FAC:3(A)
2.					Total Number of Dominant
3.		0			Species Across All Strata:3(B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.		0			
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	: 0	001.0
					OBL Species 2 x 1 = 2 FACW Species 83 x 2 = 166
	Salix pulchra	70	✓	FACW	FAC Species 96 x 3 = 288
	Salix reticulata	30		FAC	FACU Species 8 x 4 = 32
	Vaccinium vitis-idaea			FACU	UPL Species 0 x 5 = 0
5.	Spiraea stevenii	0		FACU	
6.					Column Totals: <u>189</u> (A) <u>488</u> (B)
7.		0			Prevalence Index = B/A = 2.582
8.			П		Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
	Total Cover: b Stratum 50% of Total Cover:		6 of Total Cover	r: 20.8	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum arvense	_ 55_	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Mertensia paniculata	5		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Arctagrostis latifolia	3		FACW	be present, unless disturbed or problematic.
4.	Luzula arcuata	2		FACU	Plot size (radius, or length x width)
5.	Petasites frigidus	10		FACW	% Cover of Wetland Bryophytes
6.	Carex aquatilis			OBL	(Where applicable)
7.	Anemone richardsonii	1		FAC	% Bare Ground
8.	Tephroseris atropurpurea	3		FAC	Total Cover of Bryophytes
9.	Aconitum delphinifolium			FAC	
10.	Carex bigelowii	2		FAC	Hydrophytic
	Total Cover: 50% of Total Cover:4		of Total Cover	:17	Vegetation Present? Yes ● No ○
Rem	arks: polacu 1				

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SOIL Sampling Point: SW13_T143_03

Profile Description: (Describe	Matrix		Re	dox Featur				
(inches) Color	moist)	_%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
<u>0-6</u>							Fibric Organics	P
6-11		100					Hemic Organics	
11-16		100					Sapric Organics	
Type: C=Concentration.	D=Depletion		ed Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:			Indicators for P		_			
✓ Histosol or Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine				Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox	With 2.5Y H	ue		Other (Explain in Remark	rs)
Thick Dark Surface (A								
Alaska Gleyed (A13)			³ One indicator o and an appropria				nary indicator of wetland h	ydrology,
Alaska Redox (A14)				·	•	•	COCIT	
Alaska Gleyed Pores (A15)		⁴ Give details of o	color change	in Remark	S		
Restrictive Layer (if preser	t):							
Type: seasonal frost							Hydric Soil Present	? Yes ● No O
Depth (inches): 16 Remarks:								
Remarks:								
Remarks: HYDROLOGY Wetland Hydrology Ind								cators (two or more are required)
HYDROLOGY Wetland Hydrology Ind Primary Indicators (any o		ıt)					Water Stair	ned Leaves (B9)
HYDROLOGY Wetland Hydrology Ind Primary Indicators (any o	ne is sufficien	nt)		Visible on Ae			Water Stai	ned Leaves (B9) Patterns (B10)
HYDROLOGY Wetland Hydrology Ind Primary Indicators (any o Surface Water (A1) V High Water Table (A)	ne is sufficien	ıt)	Sparsely Ve	getated Cond			☐ Water Stain☐ Drainage P☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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