WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 01-Aug-13						
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_03						
	gator(s): WAD, RWM		Landform (hill	ndform (hillside, terrace, hummocks etc.): Toeslope							
	elief (concave, convex, none): concave		Slope:		1 ° Elevation: 109						
			· —								
	ion : Interior Alaska Mountains	Lat									
Soil Map Unit Name: NWI classification: PSS1B Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)											
Are V Are V	egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significantly naturally pr wing sam	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No						
Hydrophytic Vegetation Present? Yes No No Is the Sampled Area											
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ● No ○								
	Wetland Hydrology Present? Yes No Curks: Base of small bluff, tall closed willow wetland)									
	TATION -Use scientific names of plants. L	ist all spe	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species						
1.		0			That are OBL, FACW, or FAC:3(A)						
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)						
3.					Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.		0			Prevalence Index worksheet:						
	Total Cover	:			Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 2 x 1 = 2						
1	Salix pulchra	70	✓	FACW	FACW Species 83 x 2 = 166						
	0-1111-		V	FAC	FAC Species 96 x 3 = 288						
	Vaccinium vitis-idaea			FAC	FACU Species 8 x 4 = 32						
	Spiraea stevenii			FACU	UPL Species 0 x 5 = 0						
5.					Column Totals: <u>189</u> (A) <u>488</u> (B)						
6.		•									
7.		0			Prevalence Index = B/A = 2.582						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
10.		0			✓ Prevalence Index is ≤3.0						
Her	Total Cover 50% of Total Cover:		of Total Cover	20.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Equisetum arvense	55	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Mertensia paniculata			FACU	¹ Indicators of hydric soil and wetland hydrology must						
3.	Arctagrostis latifolia			FACW	be present, unless disturbed or problematic.						
4.	Luzula arcuata	-		FACU	Plot size (radius, or length x width)						
5.	Petasites frigidus			FACW	% Cover of Wetland Bryophytes 15						
6.	Carex aquatilis			OBL	(Where applicable)						
7.	Anemone richardsonii			FAC FAC	% Bare Ground						
8.	Tephroseris atropurpurea	2		FAC	Total Cover of Bryophytes30						
9.	Aconitum delphiniifolium Carey binelowii	2		FAC							
10. Carex bigelowii 2 Total Cover: 85				170	Hydrophytic Vegetation						
			of Total Cover	17	Present? Yes • No O						
Rem	arks: polacu 1										

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SOIL Sampling Point: SW13_T143_03

Profile Descript			ded to docume	ent the indicator or co			ators)					
Depth (inches)		atrix	~		dox Featu %	Type ¹	Loc ²	Texture	Remarks			
0-6	Color (mois	(t)	100	Color (moist)	- 96	ı ype	LOC -	Fibric Organics	Kemarks			
			100					Hemic Organics				
6-11					-							
11-16			100					Sapric Organics				
	-				_							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:		1	Indicators for P	roblematio	c Hydric Sc	oils: ³					
Histosol or Histel (A1) Alaska Color Change (TA4)								Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	pedon (A2)		[Alaska Alpine swales (TA5) Underlying Layer								
☐ Hydrogen	Sulfide (A4)		[Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	s)			
☐ Thick Darl	k Surface (A12)			30								
Alaska Gle	eyed (A13)			and an appropria				nary indicator of wetland h esent	ydrology,			
Alaska Re				4 Give details of c		•	•					
	eyed Pores (A15)			Give details of c	olor chang	e iii Keilidi k	.5					
Restrictive Laye									.			
Type: seas Depth (incl								Hydric Soil Present?	? Yes • No O			
Remarks:	ies). 10											
HYDROLO	GY											
	rology Indicat	ors:						Secondary Indic	cators (two or more are required)			
	ators (any one is								ned Leaves (B9)			
☐ Surface V	Vater (A1)			☐ Inundation \	/isible on A	erial Imager	ry (B7)	☐ Drainage P	atterns (B10)			
✓ High Water Table (A2)				Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposit	s (B15)				f Reduced Iron (C4)			
Water Ma	ırks (B1)			Hydrogen Su	ılfide Odor	(C1)		☐ Salt Deposi	ts (C5)			
	Deposits (B2)			Dry-Season	Water Tabl	e (C2)			Stressed Plants (D1)			
Drift Depo	. ,			Uther (Expla	in in Rema	rks)			c Position (D2)			
_	or Crust (B4)							✓ Shallow Aq	` '			
☐ Iron Depo	. ,								raphic Relief (D4)			
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)			
Field Observa		Yes 〇	Na 📵	5 (,							
Surface Wate				Depth (inche	es):							
Water Table F		Yes 💿	No \bigcirc	Depth (inche	es): 4		Wetla	nd Hydrology Present	t? Yes • No ·			
Saturation Pre (includes capi		Yes	No O	Depth (inche	es): 0							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
Kemarks.												

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