WETLAND DETERMINATION DATA FORM - Alaska Region

Project	//Site: Susitna-Watana Hydroelectric Project		Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-13
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T162_05
nvesti	gator(s): WAD, RWM		L	andform (hills	side, terrac	e, hummocks etc.): terrace
Local r	relief (concave, convex, none): concave		;	Slope: 3.5	% / 2.0	Elevation: 1493
Subreg	gion : Interior Alaska Mountains	Lat.	∴ 6	3.121634841		Long.:148.108758688
Soil Ma	p Unit Name:					NWI classification: PEM1E
Are V Are V	matic/hydrologic conditions on the site typical for the fegetation , Soil , or Hydrology (regetation , Soil , or Hydrology) MARY OF FINDINGS - Attach site map s	significa naturally showing s	antly y pro	disturbed?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydric Soil Present? Yes ⊙ N	o () o () o ()			the Sam thin a W	pled Area etland? Yes ● No ○
/EGE	ETATION - Use scientific names of plants	s. List all s		cies in the p		Dominance Test worksheet:
	e Stratum	_% Cov		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.			0			Total Number of Dominant
2. 3.			0			Species Across All Strata: 3 (B)
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC:
5.	Total Co	over:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	02	20% (of Total Cover:	0	OBL Species <u>42</u> x 1 = <u>42</u>
1.	Salix polaris	:	8	✓	FACW	FACW Species 13 x 2 = 26
2.	Salix pulchra		5	✓	FACW	FAC Species <u>1.1</u> x 3 = <u>3.300</u>
3.			0			FACU Species4 x 4 =16
4.			0			UPL Species
5.			0			Column Totals: <u>60.1</u> (A) <u>87.30</u> (B)
6.			0			Prevalence Index = B/A = 1.453
7.			0			Trevalence index - BIA - 1.733
			0			Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
Her	b Stratum 50% of Total Cover:			of Total Cover:	2.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Eriophorum angustifolium		5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis		35		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Luzula arcuata		2		FACU	be present, unless disturbed or problematic.
4.	Saxifraga nelsoniana		1		FAC	Plot size (radius, or length x width)
5.	Poa arctica Artemisia norvegica		. <u>1</u> 2		FACU FACU	% Cover of Wetland Bryophytes
6. 7.	Caray lashansiii		2		OBL	(Where applicable)
7. 8.			0			% Bare Ground
			0			Total Cover of Bryophytes _5
			0			Hydronhytic
	Total Co	ver:47.	1	-		Vegetation
	50% of Total Cover:	-		of Total Cover:	9.42	Present? Yes No No
		over: 47.	1	of Total Cover:	9.42	

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SOIL Sampling Point: SW13_T162_05

Profile Description: (Describe to	the depth no Matrix	eeded to docur		onfirm the abso		ators)		
Depth ————————————————————————————————————	oist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1		100					Fibric Organics	
1-3 2.5Y	4/4	100					Sapric Organics	feels like organic but not dark color
3-13 2.5Y	2.5/1	100					Coarse Sand	
313 2.31	2.3/1						Course ourse	
			-					
							-	
¹ Type: C=Concentration. D	=Depletion	. RM=Reduc			_		nnel. M=Matrix	
Hydric Soil Indicators:			Indicators for P	roblematic	Hydric So	oils: ³		
Histosol or Histel (A1)			Alaska Color C	hange (TA4))4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine	swales (TA5))		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y H	ue	✓	Other (Explain in Remark	s)
☐ Thick Dark Surface (A12	2)		2.5					
Alaska Gleyed (A13)			One indicator of and an appropria				nary indicator of wetland hesent	ydrology,
Alaska Redox (A14)				·	•	•		
Alaska Gleyed Pores (A	15)		⁴ Give details of o	color change	in Remark	is .		
Restrictive Layer (if present)	:							
Type: seasonal frost							Hydric Soil Present	? Yes ● No O
Depth (inches): 31								
							hydrophytic vegetation, as	·
								·
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indic	ators:							cators (two or more are required)
		t)					_Secondary Indi	
Wetland Hydrology Indic		t)	☐ Inundation \	/isible on Ae	rial Image	ry (B7)	_Secondary Indi	cators (two or more are required)
Wetland Hydrology Indic		t)	☐ Inundation \		_		Secondary Indi	cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indic Primary Indicators (any one ☐ Surface Water (A1) ☑ High Water Table (A2) ☑ Saturation (A3)		t)		getated Cond	_		Secondary Indi Water Stai Drainage F Oxidized R Presence o	cators (two or more are required) ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Primary Indicators (any one Surface Water (A1) High Water Table (A2)		t)	Sparsely Veg	getated Cond s (B15)	cave Surfac		Secondary Indi Water Stai Drainage F Oxidized R	cators (two or more are required) ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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