## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watan	a Hydroelectric Project	Вс	prough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13			
Applicant/Owner: Alaska Ene	ergy Authority				Sampling Point: SW13_T139_14			
nvestigator(s): WAD, BAB		L	_andform (hill	(hillside, terrace, hummocks etc.): trough				
Local relief (concave, convex, r	none): flat		Slope:	%/ 1.5	5 ° Elevation: 401			
Subregion : Southcentral Alas	ka	Lat.: 6	62.81411113	39	Long.: -149.630399465 Datum: NAD83			
Soil Map Unit Name:		_	NWI classification: PEM1E					
Are climatic/hydrologic conditio	ns on the site typical for this t	ime of vear?	y Yes	• No ()	(If no, explain in Remarks.)			
Are Vegetation , Soil		significantly			Iormal Circumstances" present? Yes • No			
Are Vegetation, Soil		naturally pro			eded, explain any answers in Remarks.)			
-								
SUMMARY OF FINDING		-	pling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation	Present? Yes 🔍 No 🤇	)	la	the Com	valad Area			
Hydric Soil Present?	Yes 🔍 No 🤇	)	Is the Sampled Area within a Wetland? Yes ● No ○					
Wetland Hydrology Pres			W	thin a w				
Remarks: top section of troug	h peatland sloping to the we	st.						
VEGETATION - Use scier	ntific names of plants. L	ist all spe	cies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.		0			Total Number of Dominant			
2.		0			Species Across All Strata: <u>3</u> (B)			
3.		0			Percent of dominant Species			
		0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
5		0			Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sapling/Shrub Stratum	50% of Total Cover:	20% d	of Total Cover:	0	OBL Species x 1 =			
1. Myrica gale		15	$\checkmark$	OBL	FACW Species x 2 =4			
2. Betula nana		5	$\checkmark$	FAC	FAC Species <u>10</u> x 3 = <u>30</u>			
3.		0			FACU Species x 4 =			
4.		0			UPL Species x 5 =			
5		0			Column Totals: <u>87</u> (A) <u>109</u> (B)			
6					Prevalence Index = B/A =1.253_			
8		0			Hydrophytic Vegetation Indicators:			
					Dominance Test is > 50%			
10		0			✓ Prevalence Index is ≤3.0			
Herb Stratum	<b>Total Cove</b> 50% of Total Cover:		of Total Cover	: 4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
		45		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
-				UDL				
1. Trichophorum caespito		10						
<ol> <li>Trichophorum caespito</li> <li>Eriophorum angustifoliu</li> </ol>	um	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
<ol> <li>Trichophorum caespito</li> <li>Eriophorum angustifoliu</li> <li>Fritillaria camschatcens</li> </ol>	um sis	10 5		OBL FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
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<ol> <li>Trichophorum caespito</li> <li>Eriophorum angustifoliu</li> <li>Fritillaria camschatcens</li> <li>Menyanthes trifoliata</li> <li>Swertia perennis</li> <li>Arctagrostis latifolia</li> </ol>	um sis	10 5 5 1 1		OBL FAC OBL FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) <u>10m</u>			
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)           Matrix         Redox Features						cators)			
Depth – (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
0-16		100			.,,,,,		Fibric Organics		
	,		······ /····						
					-				
	<u>.</u>						-		
	ntration D-Donk	tion PM-Redu	ced Matrix <sup>2</sup> Locatio	n: DI – Dor		-Poot Cha	nnel M-Matrix		
Type. C=Conce					-				
Hydric Soil Ind	icators:		Indicators for P		4	oils:			
<ul> <li>Histosol or H</li> </ul>	istel (A1)		Alaska Color C	• •	,		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epiped	on (A2)		Alaska Alpine	-	-		Underlying Layer		
Hydrogen Su	lfide (A4)		Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	(S)	
Thick Dark S	. ,		<sup>3</sup> One indicator of	bydronby	ic vegetatio	on one prin	nary indicator of wetland h	vdrology	
Alaska Gleye			and an appropria					yalology,	
Alaska Redo	. ,		<sup>4</sup> Give details of c	olor chang	e in Remarl	ks			
Alaska Gleye	d Pores (A15)					N3			
Restrictive Layer	(if present):								
Type:							Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inches	5):								
Remarks:						·			
no restrictive laye	r observed.								
HYDROLOG	v								
Wetland Hydro							Secondary Indi	cators (two or more are required)	
-	rs (any one is suffi	cient)						ned Leaves (B9)	
Surface Wat			Inundation \	/isible on A	erial Image	erv (B7)	_	Patterns (B10)	
High Water	. ,		Sparsely Veg		-			hizospheres along Living Roots (C3)	
Saturation (	( )		Marl Deposit	•	leave barra	ee (B0)	_	f Reduced Iron (C4)	
Water Marks			Hydrogen Su		(C1)		Salt Depos		
Sediment De			Dry-Season				_	Stressed Plants (D1)	
Drift Deposi			Other (Expla		• •		Geomorph	ic Position (D2)	
Algal Mat or					-7		Shallow Ac	juitard (D3)	
Iron Deposit								graphic Relief (D4)	
Surface Soil	Cracks (B6)						FAC-neutra	l Test (D5)	
Field Observati	ons:								
Surface Water P	resent? Yes	s 💿 No 🔿	Depth (inche	es): 3					
Water Table Pre	sent? Ye	s 💿 No 🔿	Depth (inch	-s)· 0		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Prese				,					
(includes capilla		s 💿 No 🔿	Depth (inche	es): 0					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
surface water in I	inear parallel pool	s. emergent ve	g or open water.						