WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Jul-13						
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T139_04						
nvestig	jator(s): WAD, BAB		Landform (hill	side, terrac	e, hummocks etc.): Bench						
-	elief (concave, convex, none): concave		Slope:	%/ 2.3	· · · · · · · · · · · · · · · · · · ·						
		L at :									
-	ion : Southcentral Alaska	Lal	62.823787650	0							
Soil Ma	p Unit Name:				NWI classification: PEM1F						
Are V Are V SUMN		significan naturally p wing sa	tly disturbed? problematic? mpling point	Are "N (If nee locations							
	Hydric Soil Present? Yes 🔍 No 🖯)			mpled Area						
	Wetland Hydrology Present? Yes No C		wi	thin a W	etland? Yes $ullet$ No $igloodow$						
Remarks: Low elevation base of trough area with saturated tundra ponds and inundated puddles (almost strang).											
	TATION - Use scientific names of plants. Li	Absolute	e Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species						
	Stratum	% Cove	r Species?	Status	That are OBL, FACW, or FAC:4(A)						
		0			Total Number of Dominant						
2.		0			Species Across All Strata:4 (B)						
3.		0			Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC:(A/B)						
5.		0	_		Prevalence Index worksheet:						
	Total Cover		_		Total % Cover of: Multiply by:						
Sap	ing/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =47						
1.	Dasiphora fruticosa	5	\checkmark	FAC	FACW Species x 2 =4						
2.	Myrica gale	5	\checkmark	OBL	FAC Species <u>11</u> x 3 = <u>33</u>						
3.	Betula nana	5	\checkmark	FAC	FACU Species $0 \times 4 = 0$						
4.	Vaccinium uliginosum	1		FAC	UPL Species $0 \times 5 = 0$						
5.	Chamaedaphne calyculata	1		FACW	Column Totals: 60 (A) 84 (B)						
6.	Andromeda polifolia	1		FACW	$Column rotals. \underline{00} (A) \underline{0+} (B)$						
7.		0			Prevalence Index = B/A = <u>1.400</u>						
8.		0									
9.		0			\checkmark Dominance Test is > 50%						
		0			✓ Prevalence Index is ≤3.0						
	Total Cover 50% of Total Cover:		–)% of Total Cover	: 3.6	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 						
1.	Trichophorum caespitosum	25	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Comarum palustre	-		OBL	¹ Indicators of hydric soil and wetland hydrology must						
3.	Carex aquatilis	F		OBL	be present, unless disturbed or problematic.						
4.	Carex limosa	3		OBL	Plot size (radius, or length x width) 10m						
5.	Menyanthes trifoliata	2		OBL							
6.	Eriophorum angustifolium	- 1		OBL	% Cover of Wetland Bryophytes <u>45</u> (Where applicable)						
7.	Equisetum fluviatile	1		OBL	% Bare Ground						
8.					Total Cover of Bryophytes						
		-									
		0			Hydrophytic						
	Total Cover:		_		Vegetation						
	50% of Total Cover:	21 20	% of Total Cover:	8.4	Present? Yes No						
Rem					1						

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features										
Depth (inches)	Color (mois	it) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
		<u> </u>			.,,,,					
					·	<u>.</u>				
	· · · · · ·									
			, ,							
¹ Type: C=Cor	ncentration. D=I	Depletion. RM=F	Reduced Matrix ² Locatio	n: PL=Pore	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil Iı	ndicators:		Indicators for P	roblematic	: Hydric S	oils ³				
	r Histel (A1)		🗌 Alaska Color C		4		Alaska Gleyed Without H	ie 5Y or Redder		
Histic Epip	. ,		Alaska Alpine	• •	,		Underlying Layer			
	Sulfide (A4)		Alaska Redox			\checkmark	Other (Explain in Remark	s)		
	Surface (A12)		—							
Alaska Gle	. ,						nary indicator of wetland h	ydrology,		
Alaska Rec			and an appropria	te landscap	e position	must be pre	esent			
	eyed Pores (A15)		⁴ Give details of c	olor change	e in Remarl	ks				
Restrictive Laye	er (if present):									
Type:							Hydric Soil Present	? Yes 🖲 No 🔿		
Depth (inch	nes):									
Remarks:										
assume hydric s	soil due to hydro	ophytic vegetation	on and inundation.							
HYDROLO	GY									
·	rology Indicat	ors:					Secondary Indi	cators (two or more are required)		
-	tors (any one is							ned Leaves (B9)		
Surface W			Inundation \	/isihle on A	erial Image	Prv (R7)	✓ Drainage P			
High Wate	. ,		Sparsely Veg		-			hizospheres along Living Roots (C3)		
Saturation	()		Marl Deposit	-	Lave Juna		Presence of Reduced Iron (C4)			
Water Mar			Hydrogen Su		(C1)		Salt Depos	. ,		
	Deposits (B2)							Stressed Plants (D1)		
			Other (Expla				Geomorphi	. ,		
	or Crust (B4)			III III IXCINA	K5)		Shallow Aq			
							Microtopographic Relief (D4)			
	oil Cracks (B6)						FAC-neutra			
Field Observa	. ,									
Surface Water		Yes 💿 No	O Depth (inch	ec). 2						
		Yes No	\cap			Wotlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Water Table P			Depair (main	es): 0		Wellar	па пуагоюуу гтезен			
Saturation Pre (includes capil		Yes 🖲 No	O Depth (inche	es): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
water table at the surface.										
שמופו נמטוב מנ נ	ulle surrace.									