WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	ite: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Aug-15						
Applican	t/Owner: Alaska Energy Authority			-	Sampling Point: SW15_T303_01						
nvestiga			Landform (hills	side, terrac	e, hummocks etc.): Headwaters						
-	ief (concave, convex, none): hummocky		Slope: 7.0								
	· · · · · · · · · · · · · · · · · · ·	Lot									
	n : Interior Alaska Mountains	Lat.:									
•	Unit Name:				NWI classification: PEM1F						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No O (If no, explain in Remarks.)											
Are Vegetation 🔲 , Soil 🗌 , or Hydrology 🗌 significantly disturbed? Are "Normal Circumstances" present? Yes 🖲 No 🔿											
Are Ve	getation 🗌 , Soil 🗹 , or Hydrology 🗌	naturally	problematic?	(If nee	ded, explain any answers in Remarks.)						
SUMM	ARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	, transects, important features, etc.						
	ydrophytic Vegetation Present? Yes No	-									
			ls	the Sam	pled Area						
	,			thin a W	-						
Remar	<s: and="" drainage,="" headwater="" p="" sedge="" sn<="" very="" wet="" with=""></s:>	nall humm	ocks, includes s	several large	er peat mounds and small plateaus developing.						
			a stars to the s								
	TATION - Use scientific names of plants. L	ist all sp	ecles in the	plot.							
		Absolute		Indicator	Dominance Test worksheet:						
	Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)						
1.					Total Number of Dominant						
2.			. Ц		Species Across All Strata:3_ (B)						
3.					Percent of dominant Species						
4.					That Are OBL, FACW, or FAC: (A/B)						
5	7.1.10		. 🗆		Prevalence Index worksheet:						
	Total Cover		-		Total % Cover of: Multiply by:						
Sapli	ng/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>51.2</u> x 1 = <u>51.2</u>						
1. 5	Salix pulchra	5		FACW	FACW Species <u>6</u> x 2 = <u>12</u>						
2. <u>E</u>	Betula nana	5		FAC	FAC Species 8 x 3 = 24						
3. 5	Salix reticulata	1		FAC	FACU Species $1 \times 4 = 4$						
4	Andromeda polifolia(IAM)	0.1		OBL	UPL Species x 5 =						
5\	/accinium oxycoccos	0.1		OBL	Column Totals: <u>66.2</u> (A) <u>91.20</u> (B)						
6. <u>F</u>	Picea glauca	1	. Ц	FACU	Prevalence Index = B/A = <u>1.378_</u>						
	Empetrum nigrum	1	. Ц	FAC							
	Луrica gale	1	. Ц	OBL	Hydrophytic Vegetation Indicators:						
9\	/accinium uliginosum	1	. Ц	FAC	✓ Dominance Test is > 50%						
10. <u>F</u>	Rhododendron tomentosum	1	. 🗆	FACW	✓ Prevalence Index is \leq 3.0						
	Total Cover Stratum 50% of Total Cover:			. 2.24	Morphological Adaptations (Provide supporting data in						
					Remarks or on a separate sheet)						
-	Carex aquatilis			OBL	Problematic Hydrophytic Vegetation (Explain)						
_	Frichophorum caespitosum			OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
	Eriophorum angustifolium	-	. L	OBL							
			- 📙		Plot size (radius, or length x width)10m						
		•			% Cover of Wetland Bryophytes						
_					(Where applicable)						
					% Bare Ground 15						
					Total Cover of Bryophytes <u>10</u>						
		0									
	Total Cours				Hydrophytic Vogetation						
	Total Cover 50% of Total Cover:	: 50	- % of Total Cover:		Hydrophytic Vegetation Present? Yes • No O						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
Depth (inches)	Color (moi	st) %	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
(incirco)	Color (mois	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Color (moist)	<u>%</u>	Type -	<u>Loc</u>	Texture	Kemarks	
	. <u> </u>								
	·								
							-		
¹ Type: C=Cor	ncentration. D=[Depletion. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		Indicators for Pr	oblemati	c Hydric S	oils: ³			
Histosol or	r Histel (A1)		Alaska Color Ch	nange (TA4	4) 4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)		Alaska Alpine s	wales (TA	5)		Underlying Layer		
	Sulfide (A4)		🗌 Alaska Redox V	Nith 2.5Y F	lue	\checkmark	Other (Explain in Remark	s)	
	k Surface (A12)								
Alaska Gle	()						nary indicator of wetland h	ydrology,	
Alaska Red	, , ,		and an appropriat	e lanoscap	e position	must be pre	esent		
	eyed Pores (A15)	١	⁴ Give details of co	olor chang	e in Remar	ks			
Restrictive Laye	er (ir present):								
Type:							Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inch	nes):								
Remarks:									
inundated, no p	pit. assume hydr	ic soil.							
HYDROLO	GY								
	rology Indicat	ors:					Secondary Indi	cators (two or more are required)	
-	ators (any one is							ned Leaves (B9)	
Surface W			Inundation V	isible on A	erial Image	-rv (B7)		atterns (B10)	
	er Table (A2)		Sparsely Veg		-			hizospheres along Living Roots (C3)	
Saturation			Marl Deposits				Presence of Reduced Iron (C4)		
Water Ma	. ,		Hydrogen Su	. ,	(C1)		Salt Depos		
	Deposits (B2)		Dry-Season V					Stressed Plants (D1)	
			Other (Explai		· · /		_	ic Position (D2)	
· _ ·	or Crust (B4)			III Kema	rksj			uitard (D3)	
								raphic Relief (D4)	
	osits (B5) Soil Cracks (B6)								
								l Test (DS)	
Field Observa		Yes 💿 No 🔿	D-nth (incha						
Surface Water			Depth (inche	:S): 4				\sim \sim	
Water Table P	Present?	Yes 🔿 No 🖲	Depth (inche	:s):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pre (includes capi		Yes 🔿 No 🖲	Depth (inche	s):					
Describe Recor	rded Data (strea	m gauge, monitor wel	l, aerial photos, prev	vious inspe	ection) if av	vailable:			
Remarks:	_			_	_				