WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	droelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 29-Aug-15							
Applica	ant/Owner: Alaska Energy	Authority				Sampling Point: SW15_T345_08							
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Floodplain													
	elief (concave, convex, none)): hummocky		Slope: 0.0		, , , , , , , , , , , , , , , , , , , ,							
	·		Lat.:										
_	ion : Interior Alaska Mounta	IIIS	Lai										
	p Unit Name:				<u> </u>	NWI classification: PSS1C							
Are V	Are Vegetation . Soil . , or Hydrology . naturally problematic? . (If no, explain in Remarks.) Are Vegetation . , Soil . , or Hydrology . naturally problematic? . (If needed, explain any answers in Remarks.)												
			-		·								
SUMN	MARY OF FINDINGS - A	Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Pres	ent? Yes 💿 No 🤇											
	Hydric Soil Present?	Yes ● No C				pled Area							
	Wetland Hydrology Present?	Yes ● No C		w	ithin a W	Vetland? Yes ◎ No ○							
Rema				<u> </u>									
VEGE	TATION - Use scientific	names of plants. Li	ist all sp	pecies in the	plot.								
			Absolut	e Dominant	Indicator	Dominance Test worksheet:							
Tree	e Stratum		% Cove		Status	Number of Dominant Species							
1.						That are OBL, FACW, or FAC: 4 (A)							
2.						Total Number of Dominant Species Across All Strata: 4 (B)							
3.						Percent of dominant Species							
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.						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 3 x 1 = 3							
1.	Salix pulchra		60	✓	FACW	FACW Species 81 x 2 = 162							
	0-1:1:-		2		FAC	FAC Species <u>12</u> x 3 = <u>36</u>							
3.	Desireles es fautis es e				FAC	FACU Species 0 x 4 = 0							
4.						UPL Species 0 x 5 = 0							
5.			_			Column Totals: <u>96</u> (A) <u>201</u> (B)							
6.			_										
7.			^	_ 🖳		Prevalence Index = B/A = 2.094							
8.			0	- 📙		Hydrophytic Vegetation Indicators:							
9.			0	-		✓ Dominance Test is > 50%							
10.			0	_		✓ Prevalence Index is ≤3.0							
Uau	b Stratum	Total Cover 50% of Total Cover:		 0% of Total Cover	: 12.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
		3070 01 10001 001011		✓	FAC	Problematic Hydrophytic Vegetation (Explain)							
1. 2.	Calamagrostis canadensis Petasites frigidus		. <u>5</u> 8	- 🗸	FACW								
	Carex membranacea			- 🖺	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
3. 4.	Polemonium acutiflorum			-	FAC								
5.	Sanguisorba canadensis				FACW	Plot size (radius, or length x width) 10m							
6.	Oadia nananaia			-	FACW	% Cover of Wetland Bryophytes (Where applicable)							
7.	Dubus sharesans				FACW	% Bare Ground _5							
8.	0				OBL	Total Cover of Bryophytes50							
9.	Poa arctica		1		FAC								
10.	Arctagrostis latifolia		5	✓	FACW	Hydrophytic							
		Total Cover	33	_		Vegetation							
		50% of Total Cover:	16.5 20	% of Total Cover:	6.6	Present? Yes No No							
Rem		all but mixed with low. tr merpan, epiang, luzwah,			ks with wet	land sedges. bare ground = bare mud and a few rocks in							

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SOIL Sampling Point: SW15_T345_08

Profile Description: (Describe to the depth needed to document the indicator or confirm the absorbance Matrix Redox Featur							ators)							
Depth (inches)	Color (moist)		% Color (m		1		Loc ²	Texture	Remarks					
0-2	COIOI (IIII	isty		COIOI (III	oist,		Турс			rooted organics				
2-4	10YR	4/2							Silt Loam					
4-8	10Y	4/1	60	10YR	4/4	40	С	PL	Silt Loam					
8-16										well graded sands to cobbles to 16 in				
-					-	-								
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix														
Hydric Soil Indicators: Indicators for Problematic Hydric Soils. ³														
Histosol or Histel (A1) Alaska Color Change (TA4)								_	Alaska Gleyed Without H	ue 5Y or Redder				
Histic Epip	. ,			Alask	ka Alpine sv	vales (TA5	5)		Underlying Layer					
	Sulfide (A4)			Alask	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remark	ss)				
☐ Thick Dark	Surface (A12))		30.										
Alaska Gle	yed (A13)						ic vegetatio e position r		nary indicator of wetland h esent	lydrology,				
✓ Alaska Red	. ,	_		4 Give d	etails of co	lor change	· e in Remark	· ·s						
☐ Alaska Gle	yed Pores (A1	5)		GIVE U	etalis or co	ior change	z III Keman							
Restrictive Laye	er (if present):													
Type:									Hydric Soil Present	? Yes ● No O				
Depth (inch	ies):													
buried organics at 5 in and 8 in. fluvaquent soils?														
HYDROLO	GY													
Wetland Hydr		tors:							_Secondary Indi	cators (two or more are required)				
Primary Indicat	tors (any one	s sufficient)							Water Stained Leaves (B9)					
Surface W	ater (A1)			☐ Int	undation Vis	sible on A	erial Image	ry (B7)	(B7) Drainage Patterns (B10)					
High Water Table (A2)					arsely Vege	tated Con	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposits (B15)						f Reduced Iron (C4)				
Water Marks (B1) Hydrog					-				☐ Salt Depos					
	Deposits (B2)				y-Season W				_	Stressed Plants (D1)				
✓ Drift Depo	` '			∐ Otl	ner (Explair	in Rema	rks)		_	ic Position (D2)				
	☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)									juitard (D3) graphic Relief (D4)				
	oil Cracks (B6)								✓ FAC-neutra					
Field Observa														
Surface Water	Present?	Yes 💿	No \bigcirc	De	pth (inches	s): 18								
Water Table P	resent?	Yes \bigcirc	No 💿	De	pth (inches	s):		Wetla	Wetland Hydrology Present? Yes ● No ○					
Saturation Pre		Yes O	No •		pth (inches	•								
(includes capil					. `		ation) if our	ilabla						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:														
Remarks:														
surface water in	n trough at ed	ge of signat	ure near slo	pe break,	not consid	ered to m	eet A1 as it	's not cons	istent throughout commun	ity. drift deposits in this area.				

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