## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling D	ate: 04-Jul-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point:	SW13_T109_05		
Investig	jator(s): JGK	l	_andform (hil	lside, terrac	e, hummocks etc.): Lowland			
Local re	elief (concave, convex, none): hummocky		Slope: 17.6	6 % /   10.	0 ° Elevation: 669			
Subreg	ion : Interior Alaska Mountains	Lat.: 6	62.87166679	28	Long.: -148.29093257	Datum: WGS84		
Soil Ma	p Unit Name:				NWI classification: P	 SS1B		
	natic/hydrologic conditions on the site typical for this ti	me of vear?	y Yes	• No ()	(If no, explain in Remarks.)			
Are Ve	egetation 🗌 , Soil 🗌 , or Hydrology 🗌	significantly	disturbed?	Are "N	lormal Circumstances" present?	Yes  No		
		naturally pro			eded, explain any answers in Rema			
SUMN	MARY OF FINDINGS - Attach site map sho	-	pling point	locations	s, transects, important featu	res, etc.		
	Hydrophytic Vegetation Present? Yes 🖲 No 🔾		le	the Sam	unlod Aroa			
	Hydric Soil Present? Yes 🔍 No 🤇	)	Is the Sampled Area within a Wetland? Yes <sup>●</sup> No ○					
	Wetland Hydrology Present? Yes $ullet$ No $iglocologie$	)	vv					
	arks: DUNN SITE 1397 SOIL 1398 MOOSE BROWSE SCAT		ciac in the	alat				
VLGL	<b>TATION</b> - Use scientific names of plants. Li	ist all spe	cies in the	ρισι.	Dominance Test workshoot			
Tree	- Church	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.	• Stratum Picea mariana	12		FACW	That are OBL, FACW, or FAC:	5 (A)		
2.		0			Total Number of Dominant			
3.		0			Species Across All Strata:	<u>5</u> (B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)		
5.		0				, ,		
	Total Cover	12			Prevalence Index worksheet: Total % Cover of: Mu	Itiply by:		
Sapl	ing/Shrub Stratum 50% of Total Cover:	6 20%	of Total Cover	: 2.4		(1 = 0		
		15		FAC		2 = 88.2		
	Betula nana Vaccinium uliginosum	30		FAC		3 = 300		
	Vaccinium uliginosum Vaccinium vitis-idaea	20		FAC		4 = 12.4		
	Empetrum nigrum	5		FAC		x 5 = 0		
5.	Salix pulchra	5		FACW	Column Totals: 147.2 (	A) _400.6 (B)		
6.	Ledum groenlandicum	5		FAC		A) <u>400.0</u> (B)		
	Spiraea stevenii	2		FACU	Prevalence Index = B/A =	2.721		
8.	Rosa acicularis	1		FACU	Hydrophytic Vegetation Indicato	rs:		
9.	Picea mariana	15		FACW	✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is $\leq$ 3.0			
Herl	Total Cover <u>50% of Total Cover</u>	<u>98</u> 49 20% of Total Cover: <u>19.6</u>			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Equisetum sylvaticum	25	$\checkmark$	FAC	Problematic Hydrophytic Vegeta	ation <sup>1</sup> (Explain)		
2.	Petasites frigidus	10	$\checkmark$	FACW	<sup>1</sup> Indicators of hydric soil and wetland	l hydrology must		
3.	Arctagrostis latifolia	2		FACW	be present, unless disturbed or prob	lematic.		
4.	Pedicularis labradorica	0.1		FACW	Plot size (radius, or length x width)	_10m		
5.	Cornus canadensis	0.1		FACU	% Cover of Wetland Bryophytes			
6.					(Where applicable)			
					% Bare Ground	5		
					Total Cover of Bryophytes	60		
10.		0			Hydrophytic			
	<b>Total Cover</b> 50% of Total Cover:	-	of Total Cover	:	Vegetation Present? Yes • N	0 ()		

50% of Total Cover: <u>18.6</u> 20% of Total Cover: <u>7.44</u>

Remarks: TR UNKFORB LICHEN 10%

Profile Descripti Depth	ion: (Describe to the depth needed to do Matrix			cument the indicator or confirm the absence of indicators) <b>Redox Features</b>				ators)	_	
(inches)	Color (moi	ist)	%	Color (n	noist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-5.5									Fibric Organics	
5.5-11.5	2.5Y	4/1	60	7.5YR	5/6	20	С	М	Silty Clay Loam	SOME COARSE SAND 20% 2.5Y 2.5/1 D M
·										
<sup>1</sup> Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ced Matrix	<sup>2</sup> Location	n: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil I	ndicators:			Indicat	ors for Pr	oblematio	c Hydric So	oils: <sup>3</sup>		
Histosol or	Histel (A1)			Alas	ka Color Ch	nange (TA4	4) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alas	ka Alpine s	wales (TAS	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			🖌 Alas	ka Redox V	Vith 2.5Y H	lue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12)			• • •						
Alaska Gle	yed (A13)						ic vegetation of position n		mary indicator of wetland h resent	hydrology,
🗌 Alaska Red	dox (A14)							•		
🗌 Alaska Gle	yed Pores (A15	)		4 Give	details of co	olor change	e in Remark	S		
Restrictive Laye	er (if present):									
Type: ICE									Hydric Soil Present	? Yes 🖲 No 🔿
Depth (incl	nes): 11.5									
HYDROLO	GY									
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one is	s sufficient	t)						Water Stai	ned Leaves (B9)
Surface W	. ,			🗌 In	undation V	isible on A	erial Imager	y (B7)	Drainage I	Patterns (B10)
✓ High Wate				🗌 Sp	arsely Veg	etated Cor	ncave Surfac	e (B8)	_	hizospheres along Living Roots (C3)
Saturation	n (A3)			M	arl Deposits	s (B15)				of Reduced Iron (C4)
U Water Ma	- ( )			Ц ну	/drogen Su	lfide Odor	(C1)		Salt Depos	
_	Deposits (B2)				ry-Season V					Stressed Plants (D1)
Drift Depo				01	ther (Explai	n in Rema	rks)			ic Position (D2)
	or Crust (B4)								Shallow Ad	
Iron Depo	. ,									graphic Relief (D4)
	oil Cracks (B6)							1	✓ FAC-neutra	al Test (D5)
Field Observa		Vee C	) No 🖲							
Surface Water					epth (inche					
Water Table P				D	epth (inche	s): 5		Wetla	nd Hydrology Presen	nt? Yes 🖲 No 🔾
Saturation Pre (includes capi		Yes 🖲	) No ()	D	epth (inche	s): 3				
Describe Recor	ded Data (strea	am gauge,	monitor we	ell, aerial p	hotos, prev	ious inspe/	ection) if ava	ilable:		
Domentes										
Remarks:										
ponded area pH 6.8										
EC 110										