## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15									
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T307_07									
	nvestigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): Footslope													
Local r	Local relief (concave, convex, none): hummocky Slope: 0.0 % / 0.0 ° Elevation:													
Subred	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84									
	p Unit Name:				NWI classification: PSS4B									
	natic/hydrologic conditions on the site typical for this ti	me of ves	ar? Yes	No ○	(If no, explain in Remarks.)									
			tly disturbed?		lormal Circumstances" present? Yes  No									
		•	problematic?		eded, explain any answers in Remarks.)									
				·	,									
SUMI	MARY OF FINDINGS - Attach site map show		npling point	locations	s, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes No State Soil Present? Yes No State Soil Present? Yes No State Soil Present?														
	Hydric Soil Present? Yes ● No C				-									
	Wetland Hydrology Present? Yes ● No C	)	Wi	ithin a W	retiand?									
Rema	ırks:													
VEGE	<b>TATION</b> -Use scientific names of plants. Li	st all sp	ecies in the	plot.										
		Absolute	e Dominant	Indicator	Dominance Test worksheet:									
	e Stratum	% Cover	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)									
1.					Total Number of Dominant									
2.					Species Across All Strata:									
3.					Percent of dominant Species									
4.					That Are OBL, FACW, or FAC:									
5.					Prevalence Index worksheet:									
	Total Covers		_		Total % Cover of: Multiply by:									
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species x 1 =									
1.	Picea mariana	40	✓	FACW	FACW Species <u>48</u> x 2 = <u>96</u>									
2.	Salix pulchra	5		FACW	FAC Species 43.2 x 3 = 129.6									
3.	Vaccinium uliginosum	25	<b>✓</b>	FAC	FACU Species 0 x 4 = 0									
4.	Rhododendron tomentosum	3		FACW	UPL Species 0 x 5 = 0									
5.	Empetrum nigrum			FAC	Column Totals: 91.2 (A) 225.6 (B)									
6.	Vaccinium vitis-idaea			FAC	Prevalence Index = B/A =2.474_									
7.	Betula nana			FAC										
8.					Hydrophytic Vegetation Indicators:									
		0 0			✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0									
10.	Total Cover:													
Her	b Stratum 50% of Total Cover:			: 18.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)									
1.	Equisetum sylvaticum	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)									
	Carex bigelowii	0.1		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must									
3.					be present, unless disturbed or problematic.									
					Plot size (radius or length y width)									
					Plot size (radius, or length x width)									
6.		0	. 🖳		(Where applicable)									
7.		0	. 📙		% Bare Ground									
8.		0	. 📙		Total Cover of Bryophytes									
9.			. 📙											
		0	. $\square$		Hydrophytic									
10.		. 0.3			Vogetation									
10.	<b>Total Cover</b> : 50% of Total Cover:		_	0.04	Vegetation Present? Yes ● No ○									

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SOIL Sampling Point: SW15\_T307\_07

<u> </u>									r s	10mt. 51115_1567_67
	on: (Describe to t	the depth nee <b>Matrix</b>	ded to documer	nt the ind		firm the ab: ox Featu		cators)		
Depth (inches)	Color (moi		<u> </u>	Color (m		%	Type <sup>1</sup>	_Loc_2	Texture	Remarks
0-3	Color (III.C.	Stj	70	JOIOI (1	Olstj	_/6	Турс	LUC	Peat	
3-6									Mucky Peat	
6-9									Muck	
9-14			50 1	 10YR	2/4	50			Silt Loam	
9-14	2.51	4/2	50 1	.UTK	3/4				SIIL LOGITI	
<sup>1</sup> Type: C=Con	centration. D=	Depletion.	RM=Reduced	Matrix	<sup>2</sup> Location:	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil Ir	ndicators:		I	indicate	ors for Pro	blemati	c Hydric S	oils: <sup>3</sup>		
					ka Color Cha		4		Alaska Gleyed Without Hu	ue 5Y or Redder
☐ Histosol or Histel (A1)       ☐ Alaska Color Change (TA4)         ✓ Histic Epipedon (A2)       ☐ Alaska Alpine swales (TA5)								Underlying Layer		
	Sulfide (A4)			🖊 Alask	ka Redox W	ith 2.5Y F	Hue		Other (Explain in Remark	5)
Thick Dark	Surface (A12)			_						
Alaska Gley	yed (A13)						tic vegetation r		mary indicator of wetland hy	ydrology,
Alaska Red	ox (A14)						•		CSCITC	
Alaska Gley	yed Pores (A15	;)		4 Give d	etails of col	lor change	e in Remark	(S		
Restrictive Laye	r (if present):									
Type:									Hydric Soil Present?	? Yes ● No O
Depth (inch	es):								-	
Remarks:										
HYDROLO	cv									
Wetland Hydr		tors:							Secondary Indic	cators (two or more are required)
Primary Indicat										ned Leaves (B9)
Surface W		,		Ini	ındation Vis	sible on A	erial Image	rv (B7)		atterns (B10)
✓ High Wate	. ,						ncave Surfa			nizospheres along Living Roots (C3)
✓ Saturation	(A3)				rl Deposits			()		f Reduced Iron (C4)
☐ Water Mar	ks (B1)			□ ну	drogen Sulf	ide Odor	(C1)		Salt Deposi	ts (C5)
Sediment	Deposits (B2)				y-Season W				Stunted or	Stressed Plants (D1)
☐ Drift Depo	sits (B3)			Oth	her (Explain	ı in Rema	rks)		Geomorphi	c Position (D2)
Algal Mat	or Crust (B4)								Shallow Aq	uitard (D3)
Iron Depo	sits (B5)								Microtopog	raphic Relief (D4)
Surface So	oil Cracks (B6)							-	✓ FAC-neutra	Test (D5)
Field Observa										
Surface Water	Present?	Yes O		De	pth (inches	;):				
Water Table P	resent?	Yes 💿	No 🔾	De	epth (inches	s): 11		Wetla	nd Hydrology Present	t? Yes 💿 No 🔾
Saturation Pre		Yes	No O	De	epth (inches	s): 6				
(includes capil					' `					
Describe Record	ded Data (strea	am gauge, r	nonitor well,	aerial ph	notos, previ	ous inspe	ection) if ava	ailable:		
Remarks:										

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