## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Boro	ugh/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-13			
Applica	int/Owner: Alaska Energy Authority					Sampling Point: SW13_T100_03			
Investi	gator(s): BAB		_ Lan	Landform (hillside, terrace, hummocks etc.): Bench					
Local r	elief (concave, convex, none): rolling		_ Slo	Slope: 3.5 % / 2.0 ° Elevation: 785					
Subreg	ion : Copper River Basin	Lat.:	62.6	62.6213136781 Long.: <u>-147.405091636</u> Datum: <u>WGS84</u>					
Soil Ma	p Unit Name:				NWI classification: PSS1B				
Are V	egetation  , Soil  , or Hydrology	significar naturally wing sa	ntly dis proble	sturbed? ematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C Hydric Soil Present? Yes No C Wetland Hydrology Present? Yes No C arks:	)			the Sam thin a W	pled Area etland? Yes <sup>●</sup> No <sup>○</sup>			
/EGE	TATION -Use scientific names of plants. Li	st all s <sub>l</sub>	pecie	<u> </u>		Dominance Test worksheet:			
Two	e Stratum	Absolut		ominant Species?	Indicator Status	Number of Dominant Species			
	Disco mariana	_ <del>70 COV</del>		<u>√</u>	FACW	That are OBL, FACW, or FAC:5(A)			
2.			_			Total Number of Dominant Species Across All Strata: 5 (B)			
3.			_	$\Box$					
4.		0	_			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0				Prevalence Index worksheet:			
	Total Cover					Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	2.5 20	0% of T	otal Cover:	1	OBL Species0 x 1 =0			
1.	Betula nana	25	5	<b>✓</b>	FAC	FACW Species <u>57</u> x 2 = <u>114</u>			
2.	Ledum decumbens	35	 5	<b>✓</b>	FACW	FAC Species <u>66</u> x 3 = <u>198</u>			
3.	Picea mariana	8			FACW	FACU Species <u>0</u> x 4 = <u>0</u>			
4.	Vaccinium vitis-idaea	5			FAC	UPL Species x 5 =0			
5.	Vaccinium uliginosum	10	)		FAC	Column Totals: <u>123</u> (A) <u>312</u> (B)			
6.	Empetrum nigrum	5	_		FAC				
7.		0				Prevalence Index = B/A = 2.537			
			_			Hydrophytic Vegetation Indicators:			
			_			✓ Dominance Test is > 50%			
10.		0	_			✓ Prevalence Index is ≤3.0			
Her	Total Cover: 50% of Total Cover:				17.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
	Equisetum sylvaticum	20	<u> </u>	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Carex bigelowii		_		FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
0.	Eriophorum vaginatum		_		FACW	be present, unless disturbed of problematic.			
"	Rubus chamaemorus	-	_		FACW	Plot size (radius, or length x width) <u>10m</u>			
			_			% Cover of Wetland Bryophytes			
			_			(Where applicable)			
		_	_			% Bare Ground			
			_			Total cover or bryophytes			
		0				Hydrophytic			
	Total Cover	30				Vegetation			
	50% of Total Cover:	15 20	0% of T	otal Cover:	6	Present? Yes ● No ○			
8. 9. 10.	Total Cover	0 0 0 30	_	ortal Cover:	6	Total Cover of Bryophytes 25  Hydrophytic Vegetation			

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SOIL Sampling Point: SW13\_T100\_03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators							cators)				
Depth (inches)							. 2	Texture	Remarks		
	Color (moi	st)	<u>%</u> 100	Color (moist)	%	Type <sup>1</sup>	<u>Loc</u> 2	Fibric Organics	Remarks		
0-12								Fibric Organics			
								-			
								D-			
¹Type: C=Co	ncentration. D=	Depletion. I	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil 1	Indicators:			Indicators for Pi	roblemati	c Hydric So	oils: <sup>3</sup>				
Histosol o	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox \	•	•		Other (Explain in Remarks)			
	. ,					iuc		` '	•		
	k Surface (A12)			<sup>3</sup> One indicator of	hydrophyl	ic vegetatio	n, one prin	nary indicator of wetland h	nydrology,		
	eyed (A13)			and an appropria	te landscap	e position r	must be pre	esent			
	dox (A14)			4 Give details of c	olor chang	e in Remark	(S				
	eyed Pores (A15	)									
-	er (if present):										
Type: fro								Hydric Soil Present	? Yes ● No O		
Depth (inc	hes): 12										
HYDROLO	GY										
Wetland Hyd	lrology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)		
Surface V	Vater (A1)			☐ Inundation V	/isible on A	erial Image	ry (B7)	☐ Drainage I	Patterns (B10)		
High Water Table (A2)				Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				☐ Marl Deposit			,	Presence of	of Reduced Iron (C4)		
☐ Water Ma	arks (B1)			Hydrogen Su	. ,	(C1)		Salt Depos	sits (C5)		
	t Deposits (B2)			Dry-Season					Stressed Plants (D1)		
	osits (B3)			Other (Expla					ic Position (D2)		
= '	or Crust (B4)				iii iii recina	110)		✓ Shallow Ad			
Iron Dep								_	graphic Relief (D4)		
1 = '	Soil Cracks (B6)							✓ FAC-neutra	, , , ,		
Field Observ											
Surface Wate	er Present?	Yes $\bigcirc$	No 💿	Depth (inche	es):						
Water Table	Present?	Yes 〇	No (•)	Danth (inch	, ).		Wetla	nd Hydrology Presen	it? Yes ● No ○		
Saturation Pr				Depth (inche	es):		Weda	na rryarology r resen	iti ies a no a		
(includes cap		Yes O	No 🕑	Depth (inche	es):						
Describe Reco	rded Data (strea	am gauge, r	nonitor wel	l, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no saturation.	dry season, fros	st has the a	bility to per	ch a water table							

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