## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date:20-Aug-15							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T305_05							
Investigator(s): GVF Landform (hillside, terrace, hummocks etc.): Footslope												
Local re	elief (concave, convex, none): hummocky		Slope: 3.5	% / 2.0								
	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84							
_	p Unit Name:				NWI classification: PSS3/1B							
	natic/hydrologic conditions on the site typical for this tir	me of vear	2 Yes	● No ○	(If no, explain in Remarks.)							
			y disturbed?		ormal Circumstances" present? Yes  No							
		-	roblematic?		eded, explain any answers in Remarks.)							
	,	• •										
SUMN	MARY OF FINDINGS - Attach site map show		npling point	locations	, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Sign Present? Yes No Sign Present? Yes No Sign Present? Yes No Sign Present?												
	Hydric Soil Present? Yes 🍑 No 🗅				-							
	Wetland Hydrology Present? Yes ● No C	)	Wi	thin a W	/etland? fes @ No C							
Rema	rks:											
<b>VEGE</b>	<b>TATION -</b> Use scientific names of plants. Li	st all spe	ecies in the	plot.								
		Absolute	Dominant	Indicator	Dominance Test worksheet:							
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.					Total Number of Dominant							
2.					Species Across All Strata: 3 (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:							
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>3</u> x 1 = <u>3</u>							
1.	Empetrum nigrum	25	<b>✓</b>	FAC	FACW Species <u>33</u> x 2 = <u>66</u>							
2.	Vaccinium uliginosum	20	<b>✓</b>	FAC	FAC Species66 x 3 =198							
3.	Rhododendron tomentosum		<b>✓</b>	FACW	FACU Species 0 x 4 = 0							
4.	Vaccinium vitis-idaea	10		FAC	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Betula nana	10		FAC	Column Totals: <u>102</u> (A) <u>267</u> (B)							
6.	Picea mariana	5		FACW	Prevalence Index = B/A =2.618_							
	Salix pulchra			FACW								
	Andromeda polifolia(IAM)	3		OBL	Hydrophytic Vegetation Indicators:							
40					✓ Dominance Test is > 50%							
10.	Total Cover:				✓ Prevalence Index is ≤3.0							
Herl	o Stratum_ 50% of Total Cover:		6 of Total Cover	: 19.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
-	Rubus chamaemorus	3		FACW	Problematic Hydrophytic Vegetation (Explain)							
	Carex bigelowii			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
					be present, unless disturbed or problematic.							
					District (and its and another width)							
					Plot size (radius, or length x width) % Cover of Wetland Bryophytes							
		_			(Where applicable)							
7.		0			% Bare Ground25							
8.		0			Total Cover of Bryophytes							
9.		0										
10.		0			Hydrophytic							
	Total Cover:			a -	Vegetation Present? Yes ● No ○							
	50% of Total Cover:	2 20%	of Total Cover:	0.8	Present? res control							
Rema	arks: bare ground is litter. shrubs increase in size up	slope (bet	nan & salpul).	no dominai	nt herbs as total herb cover <5%.							

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SOIL Sampling Point: SW15\_T305\_05

		the depth nee	eded to docum	nent the indicator or co	onfirm the ab		ators)					
Depth (inches)	Color (mo	ist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks			
0-7		150,	100			.,,,,		Peat				
7-15			100					Mucky Peat				
15-16	10YR	3/2	100					Sandy Loam	underlain by large rocks, boulders?			
								Sundy Louin	underlain by large rocks, boulders:			
¹Type: C=Cor	¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: <sup>3</sup>											
Histosol o	r Histel (A1)			Alaska Color C	hange (TA	4)4		Alaska Gleyed Without H	ue 5Y or Redder			
✓ Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	Hue		Other (Explain in Remark	rs)			
Thick Dark	c Surface (A12)	)		3 One indicator of	hudrophut	ic vogotatio	n one prin	nary indicator of wetland h	wdralogy			
Alaska Gle				and an appropria					lydi ology,			
Alaska Red	dox (A14) eyed Pores (A1!	5)		<sup>4</sup> Give details of c	olor chang	e in Remark	S					
		,										
Restrictive Laye Type:	er (ii present):							Hydric Soil Present	? Yes ● No ○			
Depth (inch	nes):							nyunc son Present	r les 🤄 NO 🔾			
Remarks:	103)1											
HYDROLO	GY											
Wetland Hyd		tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	itors (any one i	s sufficient	)					Water Stained Leaves (B9)				
Surface W	Vater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)			
High Water Table (A2)				Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposit	s (B15)			Presence of Reduced Iron (C4)				
Water Marks (B1)				∐ Hydrogen Տւ				Salt Deposits (C5)				
_					Water Tabl				Stressed Plants (D1)			
☐ Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)			
	or Crust (B4)							Shallow Aquitard (D3)  Microtopographic Relief (D4)				
☐ Iron Depo	oil Cracks (B6)							✓ FAC-neutra				
Field Observa								▼ FAC-fleutia	ii rest (D3)			
Surface Water		Yes 🔾	No •	Depth (inche	e).							
Water Table F			No O		,		Wotla	nd Hydrology Presen	t? Yes • No O			
Saturation Pre				Depth (inche	es): /		Wetia	na nyarology Presen	ti les 🤄 NO 🗢			
(includes capi		Yes •	No O	Depth (inche	es): 4							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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