## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Во	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 04-Jul-13				
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T137_01				
	gator(s): WAD. BAB	side, terrac	ce, hummocks etc.): Knob							
	relief (concave, convex, none): convex			Slope: % / 16.7 ° Elevation: 109						
	gion : Southcentral Alaska									
			at							
	ap Unit Name:				<u> </u>	NWI classification: Upland				
Are \	matic/hydrologic conditions on the site typical for th /egetation  , Soil  , or Hydrology  , /egetation  , Soil  , or Hydrology    MARY OF FINDINGS - Attach site map s	signif natur	icantly ally pro	disturbed?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.				
	.,	$\circ$			41 0	unland Aman				
	Hydric Soil Present? Yes ○ No	<b>o</b>		Is the Sampled Area						
Wetland Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   Within a Wetland? Yes No   No   Wetland Hydrology Present?										
	arks: convex ridge  ETATION -Use scientific names of plants	. List al	l spe	cies in the	plot.					
			olute	Dominant		Dominance Test worksheet:				
	e 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.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.						Prevalence Index worksheet:				
	Total Co		0			Total % Cover of: Multiply by:				
Sap	oling/Shrub Stratum 50% of Total Cover:	0	20% (	of Total Cover:	0	OBL Species				
1.	Vaccinium uliginosum		25	<b>✓</b>	FAC	FACW Species x 2 =14				
2.	Salix reticulata		25	<b>✓</b>	FAC	FAC Species <u>81</u> x 3 = <u>243</u>				
3.	Betula nana		10		FAC	FACU Species <u>15</u> x 4 = <u>60</u>				
4.	Cassiope tetragona		10		FACU	UPL Species0 x 5 =0				
5.	Vaccinium vitis-idaea		5		FAC	Column Totals: <u>103</u> (A) <u>317</u> (B)				
6.	Loiseleuria procumbens		5		FACU					
7.	Rhododendron tomentosum		5		FACW	Prevalence Index = B/A = 3.078				
8.	Empetrum nigrum		5		FAC	Hydrophytic Vegetation Indicators:				
9.			0			✓ Dominance Test is > 50%				
10.			0			Prevalence Index is ≤3.0				
Hei	Total Co b Stratum 50% of Total Cover:	_	90 20%	of Total Cover	: 18	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Cornus suecica		10	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	Carex bigelowii		1		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	Pedicularis labradorica		1		FACW	be present, unless disturbed or problematic.				
4.	Anthoxanthum arcticum		1		FACW	Plot size (radius, or length x width)				
5.						% Cover of Wetland Bryophytes				
						(Where applicable)				
						% Bare Ground				
			0			Total Cover of Bryophytes55				
10.	Total Co		12			Hydrophytic				
	LOTAL CO	ver:	13			Vegetation				
	50% of Total Cover:	6.5	20%	of Total Cover	2.6	Present? Yes • No O				

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SOIL Sampling Point: SW13\_T137\_01

JUIL								Sampling	J Point: SW13_1137_01		
Profile Descripti	on: (Describe to	the depth n	eeded to docu	ment the indicator or co	nfirm the ab	sence of indic	cators)				
Depth		Matrix		Redox Features				-			
(inches)	Color (mo	ist)	%	Color (moist)	%	% Type <sup>1</sup>	_ <b>Loc</b> _2	Texture	Remarks		
0-1			100					Fibric Organics			
1-3	7.5YR	2.5/2	100					Sandy Loam			
3-5			100					Hemic Organics	sand particles throughout, wavy boundary c		
5-12	7.5YR	4/4	100					Sand	with 80 percent 4 inch angualar cobbles, p		
									-		
								-			
								-			
									-		
<sup>1</sup> Type: C=Cor	ncentration. D=	=Depletion	. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4) <sup>4</sup>		Alaska Gleyed Without H	lue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y I	Hue		Other (Explain in Remar	ks)		
☐ Thick Dark	Surface (A12)	)		30							
Alaska Gle	yed (A13)			and an appropria	hydrophy te landscai	tic vegetation i	on, one prin must be pre	nary indicator of wetland lesent	nydrology,		
Alaska Red	dox (A14)										
☐ Alaska Gle	yed Pores (A1	5)		<sup>4</sup> Give details of o	olor chang	е іп кетагк	(S				
Restrictive Laye	er (if present):										
Type:								<b>Hydric Soil Present</b>	:? Yes O No 💿		
Depth (inch	nes):										
Remarks:											
HYDROLO	GY										
Wetland Hydi		tors:						Secondary Indi	icators (two or more are required)		
Primary Indica			t)						ined Leaves (B9)		
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)		
☐ High Wate	er Table (A2)			Sparsely Veg		_					
Saturation	n (A3)			Marl Deposit			,	Presence of	of Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su	ılfide Odor	(C1)		Salt Depos	sits (C5)		
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stunted or	r Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	ırks)		Geomorphic Position (D2)			
Algal Mat	or Crust (B4)							Shallow A	quitard (D3)		
☐ Iron Deposits (B5)								Microtopo	graphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	ations:	_									
Surface Water	Present?	Yes 🤇	No ●	Depth (inche	es):						
Water Table P	resent?	Yes 🤇	No ●	Depth (inche	es):		Wetla	nd Hydrology Preser	nt? Yes O No 💿		
Saturation Pre	esent?	Yes C	No •	Depth (inche	).						
(includes capi	llary fringe)	163	110 0	Берит (піспе	:5).						
Describe Recor	ded Data (stre	am gauge	, monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no hydrology ir	ndicators obser	ved									

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