## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 01-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_07			
	gator(s): WAD, RWM		Landform (hil	ndform (hillside, terrace, hummocks etc.): Hillside				
Local	relief (concave, convex, none): convex		Slope:		2 ° Elevation: 110			
Subre	gion : Interior Alaska Mountains	lat: 6		3.2188142538 Long.: -148.223395585 Datum: NAD83				
	ap Unit Name:							
				No ○	NWI classification: Upland			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐  MARY OF FINDINGS - Attach site map sho	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No		Is the Sampled Area					
	Hydric Soil Present? Yes No		within a Wetland? Yes O No •					
	Wetland Hydrology Present?  Yes No arks: closed shrub birch on small convex feature	)	VV	itiiiii a vv	retiallu:			
	ETATION - Use scientific names of plants. L	ist all spe  Absolute % Cover	cies in the  Dominant Species?	-	Dominance Test worksheet:  Number of Dominant Species			
1.	<del>C Scratain</del>	0			That are OBL, FACW, or FAC: (A)			
2.					Total Number of Dominant Species Across All Strata: 2 (B)			
3.								
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	:0			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species $0 \times 1 = 0$			
1	Potulo nono	85	<b>✓</b>	FAC	FACW Species 5 x 2 = 10			
	Betula nana Vaccinium uliginosum	- 10		FAC	FAC Species 112 x 3 = 336			
3.	Vaccinium uliginosum Vaccinium vitis-idaea	5		FAC	FACU Species 1 x 4 = 4			
4.	Dhadadaa daa taa aataa			FACW	UPL Species 0 x 5 = 0			
5.	knoaoaenaron tomentosum							
6.		•			Column Totals:			
7.		0			Prevalence Index = B/A = 2.966			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
	Total Cover: 50% of Total Cover:	r: <u>21</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
1.	Festuca altaica	1		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Anthoxanthum monticola ssp. alpinum	1		UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Carex podocarpa	1		FAC	be present, unless disturbed or problematic.			
4.	Cornus suecica	10	<b>✓</b>	FAC	Plot size (radius, or length x width) 10m			
5.					% Cover of Wetland Bryophytes			
6.					(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes			
9.		- 0						
					Hydrophytic Vegetation			
10.	· ·	<b>:</b> 13			veuetation			
10.	<b>Total Cover</b> 50% of Total Cover:		of Total Cover	2.6	Present? Yes   No			

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SOIL Sampling Point: SW13\_T143\_07

Profile Description	on: (Describe to t	he depth nee	eded to docur	ment the inc		firm the abs		ators)			
(inches)	Color (moi	st)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5			100						Fibric Organics		
5-9	7.5YR	3/3	75	7.5YR	4/6	25		М	Sandy Loam	mixed matrix	
9-14	2.5Y	3/3	100			-			Sand		
Type: C=Con		Depletion.	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil Ir	dicators			Indicat	ors for Pro	hlematic	Hydric Sc	nile <sup>3</sup>			
	Histel (A1)				ka Color Ch		4	J.113.	Alaska Gleved Without Hi	ie 5V or Pedder	
Histosof of	` '				ka Alpine sv				☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
	Sulfide (A4)				ka Redox W	-	-		Other (Explain in Remark	s)	
	Surface (A12)										
Alaska Glev	, ,			<sup>3</sup> One ii	ndicator of I	nydrophyti	ic vegetatio	n, one prir	mary indicator of wetland h	ydrology,	
Alaska Red	, , ,				appropriate	•	•	-	esent		
	yed Pores (A15	)		4 Give o	details of co	lor change	e in Remark	s			
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present	? Yes O No 💿	
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:							Secondary India	cators (two or more are required)	
Primary Indicat	tors (any one is	s sufficient)							Water Staii	ned Leaves (B9)	
Surface W	ater (A1)			In	undation Vis	sible on A	erial Image	ry (B7)		atterns (B10)	
High Water Table (A2)					Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)	
Saturation	∐ Ma	Marl Deposits (B15)					f Reduced Iron (C4)				
Water Mar					drogen Sulf				Salt Depos		
	Deposits (B2)				y-Season W					Stressed Plants (D1)	
☐ Drift Depo				∟ Ot	her (Explair	ı in Remar	ks)			c Position (D2)	
☐ Iron Depo	or Crust (B4)									uitard (D3) raphic Relief (D4)	
	oil Cracks (B6)								FAC-neutra		
Field Observa										rest (D3)	
Surface Water		Yes O	No •	De	epth (inches	s):					
Water Table P			No ●			•		Wetla	nd Hydrology Presen	t? Yes ○ No •	
Saturation Pre		_	_	De	epth (inches	5):		Wetia	na myarology Fresen	ti les C NO C	
(includes capil		Yes 🔾	No 💿	De	epth (inches	5):					
Describe Record	ded Data (strea	am gauge,	monitor we	ll, aerial p	hotos, previ	ious inspe	ction) if ava	ailable:			
Remarks:											
no hydrology indicators observed											

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