## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	I	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13			
Applic:	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T141_11			
	gator(s): BAB	lside, terrac	ee, hummocks etc.): Hillside					
	relief (concave, convex, none): hummocky	Slope:	% / 4.2	-				
		Lot	· · —					
	gion : Interior Alaska Mountains	Lai	03.22110203					
	ap Unit Name:			<u> </u>	NWI classification: Upland			
Are \	regetation ☐ , Soil ☐ , or Hydrology ☐ in MARY OF FINDINGS - Attach site map show	significant naturally p wing sar	ly disturbed? problematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No ceded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No ceded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No C		le	the Sam	inled Area			
	Hydric Soil Present? Yes No •		Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No 🖲	)	W	itmin a vv	etiand? Tes © No ©			
VEGI	ETATION -Use scientific names of plants. Li	st all sp		•	Dominance Test worksheet:			
Tre	e Stratum	% Cover		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:3(A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	:	-		Total % Cover of: Multiply by:			
Sar	oling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover	:0	OBL Species $0 \times 1 = 0$			
1	Vaccinium uliainaaum	10		FAC	FACW Species 15 x 2 = 30			
1. 2.	Vaccinium uliginosum Vaccinium vitis-idaea	3	- 📙	FAC	FAC Species 48 x 3 = 144			
3.	Empetrum nigrum		- <b>'</b>	FAC	FACU Species 16 x 4 = 64			
4.	Cassiope tetragona	5	- <u> </u>	FACU	UPL Species 0 x 5 = 0			
5.	Spiraea stevenii	5	- П	FACU				
	Saliv nulchra	15		FACW	Column Totals: (A)			
7.	· · · · · · · · · · · · · · · · · · ·	5	· 🖺	FAC	Prevalence Index = B/A = 3.013			
	Loiseleuria procumbens	2	-	FACU	Hydrophytic Vegetation Indicators:			
9.			-		Dominance Test is > 50%			
10.		0	_		☐ Prevalence Index is ≤3.0			
	Total Cover b Stratum 50% of Total Cover:	r: 13	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
1.	Festuca altaica	8	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Anemone narcissiflora	-		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Artemisia tilesii	-		FACU	be present, unless disturbed or problematic.			
4.	Rhodiola integrifolia			FAC	Plot size (radius or length y width)			
5.	Rubus arcticus (IAM)			FACU	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes			
6.		0			(Where applicable)			
		0			% Bare Ground			
8.		0	. 📙		Total Cover of Bryophytes			
0		0						
9.		0	. $\square$		Hydrophytic			
					1 3.5			
	Total Cover:		-	: 2.8	Vegetation Present? Yes ● No ○			

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SOIL Sampling Point: SW13\_T141\_11

		the depth nee	ded to docume	ent the indicator or cor	nfirm the abs		cators)				
(inches)	Depth ———————		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2								Fibric Organics			
2-7	7.5YR	3/6						Loam	semi rounded to angular gravel and cobble		
7-19	10YR	3/3			-	-		Sandy Loam	semi rounded to angular gravel and cobble		
							-				
-							-				
¹Type: C=Cor	ncentration. D=			I Matrix <sup>2</sup> Location				annel. M=Matrix			
Hydric Soil I	ndicators:		]	Indicators for Pr		4	oils:	_			
Histosol or	r Histel (A1)		]	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	edon (A2)		]	Alaska Alpine swales (TA5) Underlying Layer							
	Sulfide (A4)		L	Alaska Redox V	Vith 2.5Y H	lue	<u></u>	Other (Explain in Remark	·s)		
	Surface (A12)	)		<sup>3</sup> One indicator of	hydrophyt	ric vegetatic	n one prin	mary indicator of wetland h	ovdrology		
Alaska Gle				and an appropriat	e landscap	e position r	must be pre	esent	ydiology,		
Alaska Red		-\		4 Give details of co	olor change	e in Remark	(S				
	eyed Pores (A15	))									
Restrictive Laye	er (if present):										
Type:	1.							Hydric Soil Present	? Yes ○ No •		
Depth (inch Remarks:	nes):										
no hydric soil ir											
HYDROLO	GY										
Wetland Hydi	rology Indica	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)	Drainage F	Patterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Con	icave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	3 (B15)				of Reduced Iron (C4)		
	Water Marks (B1) Hydrogen							☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	n in Remai	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	. ,							✓ FAC-neutra	graphic Relief (D4)		
Field Observa	oil Cracks (B6)							▼ TAC-Heude	i Test (D3)		
Surface Water		Yes 〇	No •	Depth (inche	·c):						
Water Table P		Yes O		, ,	•		Wetla	nd Hydrology Presen	t? Yes O No •		
Saturation Pre		_	_	Depth (inche	,		******	ilu ilyalology	C: 165 C 110 C		
(includes capi		Yes O	No 🔍	Depth (inche	s):						
Describe Recor	ded Data (stre	am gauge, r	nonitor well,	aerial photos, prev	/ious inspe	ction) if ava	ailable:				
Remarks:											

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