WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13			
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T130_01			
	igator(s): JGK	side, terrac	e, hummocks etc.): Swale						
	relief (concave, convex, none): hummocky			Slope:	% / 2.3				
		l a		100					
	gion : Interior Alaska Mountains	Lo	ii <u>6</u>	3.0422707797 Long.: <u>-148.119619608</u> Datum: <u>NAD83</u>					
	ap Unit Name:				<u> </u>	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , egetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map sh	signific natura nowing	antly	disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No No No eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes ● No Hydric Soil Present? Yes ○ No			Is the Sampled Area					
				within a Wetland? Yes ○ No ●					
Rem	Wetland Hydrology Present? Yes No arks:	<u> </u>		ļ					
	ETATION - Use scientific names of plants.	List all	lute	Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species			
1.			0			That are OBL, FACW, or FAC:5(A)			
2.			0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Cov	er:	n			Total % Cover of: Multiply by:			
Saj	pling/Shrub Stratum 50% of Total Cover:	0	20% (of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1	Saliv nulohra		45	✓	FACW	FACW Species 45 x 2 = 90			
2.	Salix pulchra Spiraea stevenii		15	✓	FACU	FAC Species 93.1 x 3 = 279.3			
3.	Vaccinium uliqinosum		15	✓	FAC	FACU Species 20.1 x 4 = 80.40			
4.	Empetrum nigrum		10		FAC	UPL Species 3 x 5 = 15			
5.	Betula nana		5		FAC				
6.	Vaccinium vitis-idaea		3		FAC	Column Totals: <u>161.2</u> (A) <u>464.7</u> (B)			
	Picea glauca		0.1		FACU	Prevalence Index = B/A =			
	Arctous ruber	_	0.1		FAC	Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
He	Total Cov rb Stratum 50% of Total Cover:		3.2 20%	of Total Cover	: 18.64	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Dhadiala intervifalia		10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Polemonium acutiflorum		15	<u> </u>	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Artemisia furcata		3		UPL	be present, unless disturbed or problematic.			
4.	Rubus arcticus (IAM)		5		FACU	District Andrews Inc. 1912			
5.	Festuca altaica		15	✓	FAC	Plot size (radius, or length x width) 10m			
6.	Carex bigelowii		20	✓	FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.		_	0			% Bare Ground			
			0			Total Cover of Bryophytes 60			
			0						
9.			0			Hydrophytic			
						Vegetation			
	Total Cov 50% of Total Cover:		58	of Total Cover:	13.6	Present? Yes No			

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SOIL Sampling Point: SW13_T130_01

Profile Descripti	ion: (Describe to	the denth ne	eded to docu	ment the inc	licator or cont	firm the ah	sence of indic	ators)		, rome. 01113_1130_01
		Matrix	ceded to docu	mene are me		ox Featu		acorsy		
Depth (inches)	Color (mo	ist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-2									Fibric Organics	
2-3									Hemic Organics	Some silt
3-9	2.5Y	3/2	60	10YR	3/6	40		M	Silty Clay Loam	Some angular gravel
9-14	2.5Y	3/2		2.5YR	3/6	30	C	PL_	Clay Loam	Higher coarse angular cobble % 2-5 in dia
						-				
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ed Matrix	² Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: ³		
	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	` '				ka Alpine sv		-		Underlying Layer	
	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	Hue		Other (Explain in Remarl	ks)
_ ' '	Surface (A12)									
Alaska Gle							tic vegetatio be position r		mary indicator of wetland h	nydrology,
Alaska Red	dox (A14)			anu an	арргорпасе	: iaiiuscaļ	be position i	nust be pr	esent	
Alaska Gle	yed Pores (A15	5)		⁴ Give o	letails of co	lor chang	e in Remark	S		
Restrictive Laye	er (if nresent):									
Type: frozi									Hydric Soil Present	? Yes ○ No •
Depth (inch									rryuric son r resent	.: 163 0 110 0
, ,	,.									
Remarks:										
HYDROLO	GY									
Wetland Hydi										cators (two or more are required)
Primary Indica		s sufficient	t)							ned Leaves (B9)
Surface W	, ,						erial Image			Patterns (B10)
✓ High Wate	. ,						ncave Surfac	ce (B8)		thizospheres along Living Roots (C3)
✓ Saturation	. ,				arl Deposits	. ,				of Reduced Iron (C4)
☐ Water Ma					drogen Sulf				☐ Salt Depos	
	Deposits (B2)				y-Season W					Stressed Plants (D1)
☐ Drift Depo				☐ Ot	her (Explain	in Rema	rks)			ic Position (D2)
	or Crust (B4)								✓ Shallow Ac	. , ,
☐ Iron Depo	,									graphic Relief (D4)
	oil Cracks (B6)								☐ FAC-neutra	al Test (D5)
Field Observa		(
Surface Water	r Present?		No 💿	De	epth (inches):				
Water Table P	Present?	Yes 🥑	No 🔾	De	epth (inches): 11		Wetla	nd Hydrology Presen	ıt? Yes ⊙ No 🔾
Saturation Pre		Yes •	No O	De	epth (inches): 3				
Describe Recor		am gauge,	monitor we	ll, aerial p	hotos, previ	ous inspe	ection) if ava	ailable:		
Remarks:										
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