WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13			
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T179_02			
	igator(s): WAD, RWM		andform (hill	dform (hillside, terrace, hummocks etc.): gully					
	relief (concave, convex, none): hummocky			Slope:	% / 4.3				
	gion: Interior Alaska Mountains	1 -							
		- "	at <u>0</u>	• • • • • • • • • • • • • • • • • • • •					
	ap Unit Name:				No ○	NWI classification: PEM1/SS1E			
Are '	imatic/hydrologic conditions on the site typical for the Vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map s	signifi natura showing	cantly ally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	.,	00		le	the Sam	inled Area			
	,	o O		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes ● N	<u> </u>		WI	unin a vv	etiand? Tes © No ©			
VEG	ETATION - Use scientific names of plants		-	cies in the	•	Dominance Test worksheet:			
Tre	ee Stratum		olute over	Species?	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.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Co	over:	0			Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0	20% (of Total Cover:	0	OBL Species 1 x 1 = 1			
1	Salix pulchra		30	✓	FACW	FACW Species 63 x 2 = 126			
	Vaccinium uliginosum		2		FAC	FAC Species 18 x 3 = 54			
	Salix polaris		1		FACW	FACU Species 7 x 4 = 28			
4.	•		0			UPL Species 0 x 5 = 0			
5.			0			Column Totals: <u>89</u> (A) <u>209</u> (B)			
6.			0						
7.			0			Prevalence Index = B/A = 2.348			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
He	Total Co rb Stratum 50% of Total Cover:	_	33 _ 20%	of Total Cover	: 6.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Aconitum delphiniifolium		3		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Sanguisorba canadensis		15	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must			
3.	Rhodiola integrifolia		10		FAC	be present, unless disturbed or problematic.			
4.	Arctagrostis latifolia		15	~	FACW	Plot size (radius, or length x width)			
5.	Carex podocarpa		2		FAC	% Cover of Wetland Bryophytes			
6.	Luzula arcuata		2		FACU	(Where applicable)			
7.	-		5		FACU	% Bare Ground			
	Petasites frigidus		2		FACW	Total Cover of Bryophytes			
8.	- wonderum and letitolium		1		OBL				
9.	Eriophorum angustifolium			FAC		Hydrophytic			
	Polemonium acutiflorum				170				
9.			56	of Total Cover:		Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T179_02

Profile Descripti	ion: (Describe to	the denth ne	eded to docum	nant the inc	dicator or con	firm the ab	cance of indic	rators)	r	110mc. 01113_1173_02		
		Matrix	edea to aocan	lent the mo		lox Featu		Ldtuis)				
Depth (inches)	Color (mo	oist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2			100						Fibric Organics			
2-10	2.5Y	4/1	90	7.5YR	4/4	10	С	PL	Silt Loam	organic staining throughout		
10-14	10YR	4/2	80	5YR	4/6	20	C	PL	Sand			
								-				
1		B. data			21	- DI D						
- Type: C=Cor	ncentration. D	=Depletion.	KM=Reduce				_		annel. M=Matrix			
Hydric Soil I	ndicators:				ors for Pro		4	oils:	7			
	r Histel (A1)				ka Color Ch		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip					ka Alpine sv ka Redox W	•	•		Other (Explain in Remarks)			
	Sulfide (A4)			▼ AldSi	Ka Keuux vv	/I t n 2.51 F	lue		Utilet (Explain in Neman	3)		
Alaska Gle	C Surface (A12 eved (Δ13))							mary indicator of wetland h	ıydrology,		
Alaska Red				and an	appropriate	e landscap	e position i	must be pr	esent			
	eyed Pores (A1	5)		4 Give o	details of co	lor change	e in Remarl	ks				
Restrictive Laye	r (if nresent):											
Type:	ti (ii present).								Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):								1174110 0011 1 1000110	: 100 0 NO 0		
Remarks:												
Remarks.												
HYDROLO	C.A.											
Wetland Hyd		ntors:							Secondary Indi	cators (two or more are required)		
Primary Indica)							ned Leaves (B9)		
✓ Surface W	Vater (A1)			☐ In	undation Vis	sible on A	erial Image	ery (B7)	(B8) Oxidized Rhizospheres along Living Roots (C3)			
✓ High Wate	er Table (A2)			☐ Sp	arsely Vege	etated Con	ncave Surfa	ce (B8)				
✓ Saturation	n (A3)			☐ Mā	arl Deposits	(B15)			Presence of	of Reduced Iron (C4)		
Water Ma	rks (B1)			□ Ну	drogen Sulf	fide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dr	y-Season W	/ater Table	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo				☐ Ot	ther (Explain	າ in Rema	rks)		_	ic Position (D2)		
	or Crust (B4)									quitard (D3)		
Iron Depo										graphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra	il Test (D5)		
Field Observa Surface Water		Ves (e)	No O	Dι	epth (inches	~\·)						
			No O			-		Watla	Usadanalogu Procon	it? Yes No		
Water Table P Saturation Pre				De	epth (inches	s): 8		Wella	nd Hydrology Presen	t? res 🙂 Nu 🔾		
(includes capi		Yes 🕑	No O	De	epth (inches	s): 0 						
Describe Recor	ded Data (stre	am gauge,	monitor wel	l, aerial p	hotos, previ	ious inspe	ection) if av	ailable:				
Remarks:												
drainage featu	re with active	channels an	ıd innundate	d depress	sions.							

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