WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 02-Aug-13
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T177_03
	gator(s): BAB		Landform (hill	lside, terrac	ce, hummocks etc.): drainage
	relief (concave, convex, none): concave				D ° Elevation: 1061
Subre	gion : Interior Alaska Mountains		63.075788179		Long.: -148.07008652 Datum: WGS84
	ap Unit Name:		00.070700170		
	matic/hydrologic conditions on the site typical for this ti	6	0 Voo	● No ○	NWI classification: PEM1/SS1B
Are \	/egetation \square , Soil \square , or Hydrology \square :	significantly naturally pr	y disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes No C)			
	Hydric Soil Present? Yes No C)			pled Area
	Wetland Hydrology Present? Yes ● No □)	wi	ithin a W	/etland? Yes ● No ○
Don	narks: Small active channel [<2 ft] running through dr				
	ETATION -Use scientific names of plants. Li		cies in the		Dominance Test worksheet:
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.					Total Number of Dominant
2.		0			Species Across All Strata: 4 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC:100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover		-f T-t-1 C		Total % Cover of: Multiply by:
Sap	bling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	:0	OBL Species 20 x 1 = 20
1.	Salix pulchra	_70_	✓	FACW	FACW Species 91 x 2 = 182
2.		0			FAC Species 31 x 3 = 93
3.		0			FACU Species <u>5</u> x 4 = <u>20</u>
4.					UPL Species <u>2</u> x 5 = <u>10</u>
5.					Column Totals: <u>149</u> (A) <u>325</u> (B)
6.					Prevalence Index = B/A = 2.181
7.					<u></u>
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.	Total Cover				✓ Prevalence Index is ≤3.0
He	rb Stratum 50% of Total Cover:		of Total Cover	r: <u>14</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Luzula parviflora	3		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense	15	✓	FAC	be present, unless disturbed or problematic.
4.	Calamagrostis canadensis	_10_		FAC	Plot size (radius, or length x width) 10m
5.	Rubus arcticus (IAM)	5		FACU	% Cover of Wetland Bryophytes
6.	Sedum rosea	3		FAC	(Where applicable)
7.	Parnassia kotzebuei	1		FACW	% Bare Ground
8.	Polemonium pulcherrimum	2		UPL	Total Cover of Bryophytes 20
9.	Sanguisorba canadensis			FACW	
10.	Arctagrostis latifolia	5		FACW	Hydrophytic
	Total Covers	79			Vegetation
		39.5 20%	of Total Cover:	15.8	Present? Yes • No O

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SOIL Sampling Point: SW13_T177_03

(inches) Color (moist)	%	Color (moist)	% Ty	pe ¹ <u>Loc</u> ²	Texture	Remarks
0-4	100				Fibric Organics	Fibric Organics
4-8	100				Hemic Organics	Hemic Organics
8-15	50				Hemic Organics	hemic w 10y 2.5/1 sandy loam iclsns and f
15-24	100				Sapric Organics	Sapric Organics
Type: C=Concentration. D=De	epletion. RM=Reduce	d Matrix ² Location	n: PL=Pore Lini	ing. RC=Root Ch	annel. M=Matrix	
lydric Soil Indicators:		Indicators for Pr	oblematic Hy	dric Soils: ³		
✓ Histosol or Histel (A1)		Alaska Color Cl	hange (TA4)		Alaska Gleyed Without I	Hue 5Y or Redder
Histic Epipedon (A2)		Alaska Alpine s	,		Underlying Layer	
✓ Hydrogen Sulfide (A4)		☐ Alaska Redox V	With 2.5Y Hue	L	Other (Explain in Rema	rks)
Thick Dark Surface (A12)		³ One indicator of	hvdrophytic ve	getation, one pri	mary indicator of wetland	hydrology.
Alaska Gleyed (A13)		and an appropriat				.,,
Alaska Redox (A14) Alaska Gleyed Pores (A15)		4 Give details of co	olor change in F	Remarks		
, , ,						
estrictive Layer (if present):					Hudwig Coil Duggon	t? Yes • No O
Type:					Hydric Soil Presen	t? res 🙂 No 🔾
					-	
Depth (inches): emarks: uvaquent soils. looks like the str	eam was flowing he	ere for a time. the la	ayers are sandw	viched between o	organics and have organics	s in them. very odorus.
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