WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 07-Aug-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T178_04
Investi	gator(s): BAB		Landform (hil	lside, terrac	ce, hummocks etc.): lateral morraine
	elief (concave, convex, none): rolling		Slope:	% / 12.3	
	jion : Interior Alaska Mountains	l at ·	63.05449020		Long.: -148.310874224 Datum: NAD83
	p Unit Name:	-	03.03449020	74	
			0 Vaa	No ○	NWI classification: Upland
Are \		significantly naturally pi	y disturbed? roblematic?	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.
	Hydrophytic Vegetation Present? Yes O No •)			
	Hydric Soil Present? Yes O No •)			pled Area
	Wetland Hydrology Present? Yes No •)	W	ithin a W	/etland? Yes ○ No ⊙
	arks: lateral morraine? TATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
1.					Total Number of Dominant
2.		0			Species Across All Strata: 3 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 33.3% (A/B)
5.					Prevalence Index worksheet:
	Total Cover				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species x 1 =
1.	Arctous ruber	5		FAC	FACW Species 0 x 2 = 0
2.	Empetrum nigrum	1		FAC	FAC Species <u>17</u> x 3 = <u>51</u>
3.	Dryas ajanensis	7	✓	UPL	FACU Species 7.1 x 4 = 28.4
4.	Vaccinium uliginosum	8	✓	FAC	UPL Species x 5 =35
5.	Vaccinium vitis-idaea	1		FAC	Column Totals: <u>31.1</u> (A) <u>114.4</u> (B)
6.	Loiseleuria procumbens	6	✓	FACU	
7.	Salix reticulata	_1		FAC	Prevalence Index = B/A =3.678_
8.	Salix arctica	1		FACU	Hydrophytic Vegetation Indicators:
9.	Empetrum nigrum	_1_		FAC	Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Her	Total Cover: b Stratum 50% of Total Cover:		% of Total Cove	r: <u>6.2</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Anthoxanthum monticola ssp. alpinum	0.1		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
					¹ Indicators of hydric soil and wetland hydrology must
3.					be present, unless disturbed or problematic.
4.					Plot size (radius, or length x width)
		•			% Cover of Wetland Bryophytes
		_			(Where applicable)
					% Bare Ground45
					Total Cover of Bryophytes
10.	Total Cover				Hydrophytic
	Total Covers		-f T-+-1 C		Vegetation Present? Yes ○ No ●
	50% of Total Cover:(105 70%	OFICIALLOVER	0.02	Flesent: ICS © INO ©

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T178_04

Color (revisit) O3 107N 37 100	<i>a</i> ; ,	Matrix		Re	dox Feature	nce of indicato es	515)		
9-3 107R 3/3 100 Sandy Loam org called, last of semi randed abare to got 3-10 2.5 Y 4/4 100 Sandy Loam org called, last of semi randed graved and cobbles of the common organization or disable or disable of the common organization or disable or disable of the common organization or disable or disable of the common organization or disable of the common organization or disable or disable of the common organization of the common organization or disable organization organiz	Color (noist)	%	Color (moist)	%	Type 1	Loc ²	Texture	Remarks
10-18 2.5Y 4/3 100 Sardy Loam gener manded grawd and cabbles **Type: C=Concentration. D=Depletion. RM=Reduced Matrix **Location: PL=Pore Lining. RC=Root Channel. M=Matrix **Hydric Soil Indicators:	0-3 10YR	3/3	100					Sandy Loam	org cntnt. lots of semi rnded stones to grvl
10-18 2.57 4/3 100 Sardy Loam serri rounded gravel and coboles 1 Type: C=Concembration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1 Hydric Soil Indicators:	3-10 2.5Y	4/4	100					Sandy Loam	semi rounded gravel and cobbles
Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators:	10-18 2 5Y	4/3	100	-				Sandy Loam	
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Histic Epipedon (A2)			Ī		4	1	j.	Alaska Gleved Without H	lue 5V or Pedder
hydrogen Sulfide (A4)			Ī						ide 31 01 Reddel
Thick Dark Surface (A12) Alaska Geyed (A13) Alaska Redox (A14) Alaska Geyed Pores (A15) Alaska Redox (A14) Alaska Geyed Pores (A15) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A17) Alaska Redox (A18) Alaska Redox (A18) Alaska Redox (A19) Alaska Geyed Pores (A15) Alaska Geyed Pores (A15) Alaska Redox (A19) Alaska Redox (A			Ī		` ,	e		Other (Explain in Remar	ks)
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Alaska Redox (A14) Alaska Redox (A15) A Give details of color change in Remarks Restrictive Layer (if present): Type: Depth (inches): Remarks: no hydric soil indicators observed Hydric Soil Present? Yes No Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) High Water Table (A2) Saturation (A3) High Water Table (A2) Sediment Deposits (B1) Sediment Deposits (B1) Drift Deposits (B1) Drift Deposits (B1) Drift Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Surface Water (A14) Drift Deposits (B3) Surface Soil Cracks (B6) Drift Deposits (B3) Drift Deposits (B4) Drift Deposits (_ `	12)		³ One indicator o	f hydrophytic	vegetation,	one prir	nary indicator of wetland I	nydrology,
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