WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T207_05
	pator(s): SLI, ATH	L	Landform (hill	side, terrac	e, hummocks etc.): Hillside
Local re	elief (concave, convex, none): none		Slope: 3.0	% / 1.7	° Elevation:
	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
_	p Unit Name:				NWI classification: PSS1B
	natic/hydrologic conditions on the site typical for this t	ima af vaar) Voc	No ○	(If no, explain in Remarks.)
Are V	egetation , Soil , or Hydrology	significantly naturally pro	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes No		la la	the Com	wled Avec
	Hydric Soil Present? Yes No				pled Area fetland? Yes No
	Wetland Hydrology Present? Yes 💿 No 🤇		W	ithin a W	etiand? Tes S NO S
Rema	rks:				
	TATION -Use scientific names of plants. L	ist all spe	Cies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species
	Picea mariana	10	<u>✓</u>	FACW	That are OBL, FACW, or FAC:5 (A)
2.		0			Total Number of Dominant Species Across All Strata: 5 (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	10			Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species 0.1 x 1 = 0.1
1	Betula nana	30	✓	FAC	FACW Species 48 x 2 = 96
	Vaccinium uliginosum	30	✓	FAC	FAC Species 96 x 3 = 288
3.	Picea mariana	20	<u> </u>	FACW	FACU Species 0 x 4 = 0
	Empetrum nigrum	15		FAC	UPL Species 0 x 5 = 0
5.	Rhododendron tomentosum	10		FACW	Column Totals: _144.1_ (A) _384.1_ (B)
6.	Vaccinium vitis-idaea	10		FAC	
7.	Salix pulchra	7		FACW	Prevalence Index = B/A = 2.666
8.	Andromeda polifolia(IAM)	0.1		OBL	Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0		OBL	✓ Prevalence Index is ≤3.0
Herl	Total Cover 50% of Total Cover: _		of Total Cover	24.42	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Carex bigelowii	10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Saussurea angustifolia	_1_		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus	1		FACW	be present, unless disturbed or problematic.
4.					Plot size (radius, or length x width)
5.					% Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground5
					Total Cover of Bryophytes <u>85</u>
		_			
10.	Total Cover				Hydrophytic Vegetation
	Total Cover 50% of Total Cover:		of Total Cover:	2.4	Present? Yes No No
_	_				·
Rema	arks: Bryophytes include Sphagnum, Hylacomium. 5	5% lichen co	over.		

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SOIL Sampling Point: SW15_T207_05

(inches)	Color (mo	ist)	%	Color (moist)	% 1	ype ¹ Loc	2 Tex	cture	Re	emarks
0-4			100				Peat			
4-7			100				Mucky Peat			
7-8			100				Muck			
8-12	2.5Y	3/2	100				Clay Loam		Inclusion of sand p	ocket and organic
									staining.	
12-20	2.5Y	3/2	100				Fine Sandy I	Loam		
Гуре: C=Conce	ntration. D=	-Depletion	RM=Reduce	ed Matrix ² Location	n: PL=Pore Li	ning. RC=Root	Channel. M=Mat	trix		
dric Soil Indi	icators:			Indicators for Pr	oblematic H	ydric Soils: ³				
Histosol or Hi	istel (A1)			Alaska Color Ch	nange (TA4)		Alaska Gley	ed Without Hu	ue 5Y or Redder	
Histic Epipedo	on (A2)			Alaska Alpine s	wales (TA5)		Underlying	Layer		
Hydrogen Sul	lfide (A4)			Alaska Redox V	Vith 2.5Y Hue		☐ Other (Exp	lain in Remark	s)	
Thick Dark Su)		³ One indicator of	hydronhytic y	egetation one	orimary indicato	r of wetland h	vdrology	
Alaska Gleyed				and an appropriat				or wedana n	ydrology,	
Alaska Redox Alaska Gleyeo	. ,	-\		4 Give details of co	olor change in	Remarks				
		···								
trictive Layer (i										
Type: clay loa	am						Hydric S	oil Present?	? Yes ⊙	No 🔾
Donth (inches)							,	0		
Depth (inches)							II yane o			
							,ae			
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marks: prounded cobble): 8 es-boulders	throughou	t profile.				,			
marks: rounded cobble): 8 es-boulders		t profile.							re are required
marks: prounded cobble TDROLOGY etland Hydrole): 8 es-boulders Y ogy Indica	itors:						econdary Indic	cators (two or mo	re are required)
marks: rounded cobble	y ogy Indica	itors:		☐ Inundation V	isible on Aeria	I Imagery (B7)		econdary Indic	ators (two or mo	re are required'
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