WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 20-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T06_03
Investigator(s): SLI, EKJ	Landform (hillside, terrace, hummocks etc.): Terrace
Local relief (concave, convex, none): hummocky	Slope: % / 7.0 ° Elevation: 484
Subregion : Interior Alaska Mountains Lat.:	62.829488161 Long.: -148.615165704 Datum: NAD83
Soil Map Unit Name:	NWI classification: PFO4B
	ar? Yes ● No ○ (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes ● No ○ problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area

within a Wetland?

Yes 💿 No 🔾

Remarks:

Hydric Soil Present?

Wetland Hydrology Present?

VEGETATION - Use scientific names of plants. List all species in the plot.

Yes 🕙 No 🔿

Yes 🕘 No 🔾

		Absolu	te Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cov		Status	Number of Dominant Species
1.	Picea mariana	3	5 🗸	FACW	That are OBL, FACW, or FAC: <u>5</u> (A)
2.			 D		Total Number of Dominant Species Across All Strata: 5 (B)
3.		,			Percent of dominant Species
4.		,	\sim		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			\sim		
	Total Cover:	35			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	.7.5 2	— 0% of Total Cover:	7	OBL Species $0 \times 1 = 0$
				-	FACW Species $63 \times 2 = 126$
1.	Picea mariana			FACW	FAC Species 38 x 3 = 114
2.	Picea glauca		3	FACU	
3.	Betula nana	_	3	FAC	
4.	Vaccinium uliginosum	_	<u> </u>	FAC	UPL Species x 5 =
5.	Salix barclayi		3	FAC	Column Totals: <u>110</u> (A) <u>276</u> (B)
6.	Spiraea stevenii		3	FACU	Prevalence Index = B/A = 2.509
7.	Vaccinium vitis-idaea	_1	0 🖌	FAC	
8.	Rhododendron groenlandicum			FAC	Hydrophytic Vegetation Indicators:
9.	Empetrum nigrum		5	FAC	✓ Dominance Test is > 50%
10.	Rosa acicularis		1	FACU	✓ Prevalence Index is ≤3.0
	Total Cover:				Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	28	20% of Total Cover	: 11.2	Remarks or on a separate sheet)
1.	Petasites frigidus		3	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Equisetum sylvaticum		7 🖌	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus	!	5 🖌	FACW	be present, unless disturbed or problematic.
4.	Rumex arcticus		L 🗌	FAC	Plot size (radius, or length x width) 10m
5.	Cornus suecica			FAC	
6.	Orthilia secunda		L 🗌	FACU	% Cover of Wetland Bryophytes (Where applicable)
7.	Anthoxanthum monticola ssp. alpinum		L 🗌	UPL	% Bare Ground 2
8.		(Total Cover of Bryophytes 95
9.					
10.					Hydrophytic
	Total Cover:		 !		Vegetation
	50% of Total Cover:	9.5 2	0% of Total Cover:	3.8	Present? Yes No O
Rem	arks: arclat identification based on last year infloresc	ence			

identification based on last year inflorescence.

	Ma	atrix		nt the indicator or con Red	ox Featu	res			
(inches)	Color (moist	t) _	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-6		1	.00					Fibric Organics	
6-10		1	.00					Hemic Organics	
10-14		1	.00					Sapric Organics	
	·								
¹ Type: C=Con	centration. D=D	epletion. RN	1=Reduced	Matrix ² Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:		1	indicators for Pro	oblematio	: Hydric So	oils: ³		
_	Histel (A1)		[Alaska Color Ch		4		Alaska Gleyed Without Hu	ie 5Y or Redder
✓ Histic Epip	. ,		[Alaska Alpine sv	wales (TA5	5)		Underlying Layer	
=	Sulfide (A4)		[Alaska Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	s)
Thick Dark	Surface (A12)			_					
Alaska Gle	yed (A13)			³ One indicator of and an appropriate				nary indicator of wetland h	ydrology,
Alaska Red	lox (A14)				-	-	-	Jent	
Alaska Gle	yed Pores (A15)			⁴ Give details of co	lor change	e in Remark	S		
Restrictive Laye	r (if present):								
Type: activ	e layer (frozen)							Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	es): 14								
Remarks:									
	GY								
Remarks:	GY ology Indicato	prs:						_Secondary Indic	ators (two or more are required)
Remarks: HYDROLO Wetland Hydr	-								ators (two or more are required) red Leaves (B9)
Remarks: HYDROLO Wetland Hydr Primary Indicat Surface W	tors (any one is a later (A1)			Inundation Vi	sible on A	erial Image	-γ (B7)	Water Stair	ned Leaves (B9) atterns (B10)
Remarks: HYDROLO Wetland Hydr Primary Indicat Surface W W High Wate	rology Indicato tors (any one is a later (A1) er Table (A2)			Inundation Vi Sparsely Vege		-		Water Stair Water Stair Orainage P Oxidized Ri	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3)
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