WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling I	Date: 09-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T107_08
Investigator(s): SLI, SCB	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): hummocky	Slope: 15.0	% / 8.5 ° Elevation: 739	
Subregion : Interior Alaska Mountains	Lat.: 62.8591429	Long.: -148.13488698	Datum: WGS84
Soil Map Unit Name:		NWI classification: _F	PSS1B
	of year? Yes (ficantly disturbed? rally problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Rem 	Yes 💿 No 🔿
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, important featu	ures, etc.
Underschutz Manstation Dessant? Voo 🔍 No 🔿			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()		Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: cite has burned in the past -	charcoal in	coil profilo		

Remarks: site has burned in the past - charcoal in soil profile.

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

			Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Cover	Species?	Status	Number of Dominant Species
1.	Picea mariana		15	\checkmark	FACW	That are OBL, FACW, or FAC: <u>3</u> (A)
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)
3.						Percent of dominant Species
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			0			
		Total Cover	15			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	7.5 20%	of Total Cover:	3	OBL Species $0 \times 1 = 0$
						FACW Species $26 \times 2 = 52$
1.	Vaccinium uliginosum				FAC	FAC Species $56 \times 3 = 168$
2.	Picea mariana				FACW	FACU Species $0.2 \times 4 = 0.800$
3.	Ledum decumbens				FACW	
4.					FAC	
5.					FAC	Column Totals: <u>82.2</u> (A) <u>220.8</u> (B)
6.	Alnus viridis ssp. crispa				FAC	Prevalence Index = B/A = 2.686
7.	Salix pulchra				FACW	
8.	Ledum groenlandicum				FAC	Hydrophytic Vegetation Indicators:
9.			0.1		FACU	✓ Dominance Test is > 50%
10.	Vaccinium vitis-idaea		0.1		FAC	✓ Prevalence Index is ≤3.0
		Total Cover	0110			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:	30.6 20%			Remarks or on a separate sheet)
1.	Equisetum sylvaticum				FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Cornus suecica				FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Spinulum annotinum				FACU	be present, unless disturbed or problematic.
4.			0			Plot size (radius, or length x width) <u>10m</u>
5.						% Cover of Wetland Bryophytes
6.			0			(Where applicable)
7.			0			% Bare Ground
8.			0			Total Cover of Bryophytes60
9.			0			
10.			0			Hydrophytic
		Total Cover				Vegetation
		50% of Total Cover:	3.05 20%	of Total Cover:	1.22	Present? Yes No
Rem	arks: robust picmar, look trace of unidentified	like picgla from a cistance willow	but red twi	ig hairs.		

Depth	Aatrix		ment the indicator or con Rec	dox Featu			_	
(inches) Color (moi	ist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-4							Hemic Organic	
4-9							Sapric Organic	w charcoal and woody debris
9-12							Wood Debris	
12-15 2.5Y	3/1	100					Silty Clay Loam	w high organic content and charcoal
								-
								-
			,				·	
			,					_
¹ Type: C=Concentration. D=	Depletion.	RM=Reduc			-		annel. M=Matrix	
Hydric Soil Indicators:			Indicators for Pr		4	oils: ³		
Histosol or Histel (A1)			Alaska Color Ch	• •	,		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s	•	,	_	Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox V	Nith 2.5Y	Hue		Other (Explain in Remai	ks)
Thick Dark Surface (A12)			³ One indicator of	⁺ hydronhy	tic vegetatic	n one nrir	mary indicator of wetland	hudrology/
Alaska Gleyed (A13)			and an appropriat					λγατοιομγ,
Alaska Redox (A14)			⁴ Give details of co	olor chanc	in Remarł	/c		
Alaska Gleyed Pores (A15)				Je in remain			
Restrictive Layer (if present):								\sim \sim
Туре:							Hydric Soil Presen	t? Yes 🖲 No 🔾
Depth (inches):						1		
Remarks:								
Remarks: refusal at 15in bgs - cobbles.						<u> </u>		
refusal at 15in bgs - cobbles.	 .ors:						Secondary Inc	icators (two or more are required)
refusal at 15in bgs - cobbles.)						icators (two or more are required) ined Leaves (B9)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1))	Inundation V	ïsible on A	المعالم	гу (В7)	Water Sta	
HYDROLOGY Wetland Hydrology Indicators Primary Indicators (any one is Surface Water (A1) Image: High Water Table (A2))	Inundation V Sparsely Veg		-		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3))	Sparsely Veg	getated Co is (B15)	ncave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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