WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Bo	orough Samp	oling Date: 31-Jul-12
Applicant/Owner: Alaska Energy Authority			Sampling Poir	nt: SW12_T40_07
Investigator(s): CTS, EKJ	Landform (hil	lside, terrace, hummock	ks etc.): Toes	lope
Local relief (concave, convex, none): convex	Slope:	% / _ 9.0 ° Elevat	tion: 795	
Subregion : Interior Alaska Mountains Lat	.: 62.71351795	71 Long.: _14	47.443845806	Datum: NAD83
Soil Map Unit Name:		Ň	WI classificatio	on: Upland
	antly disturbed? ly problematic?	Are "Normal Circur (If needed, explain	any answers in	nt? Yes No Remarks.)
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ● No ○		the Sampled Area ithin a Wetland?	a Yes O	No 🖲
Remarks: Fnwbs				

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: (A)
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover:	15			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 20%	of Total Cover:	3	OBL Species $0 \times 1 = 0$
1.	Salix pulchra	5		FACW	FACW Species <u>26</u> x 2 = <u>52</u>
2.	Salix glauca	2		FAC	FAC Species x 3 =
3.	Rhododendron groenlandicum	15	\checkmark	FAC	FACU Species x 4 =
4.	Betula nana	5		FAC	UPL Species x 5 =
5.	Vaccinium uliginosum	10	\checkmark	FAC	Column Totals: 103 (A) 283 (B)
6.	Vaccinium vitis-idaea	3		FAC	
7.	Arctous ruber	1		FAC	Prevalence Index = B/A = <u>2.748</u>
8.		0			Hydrophytic Vegetation Indicators:
					✓ Dominance Test is > 50%
		0			✓ Prevalence Index is \leq 3.0
	Total Cover:				Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	<u>20.5</u> 20%	6 of Total Cover:	8.2	Remarks or on a separate sheet)
1.	Petasites frigidus	5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex bigelowii	1		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense	40	\checkmark	FAC	be present, unless disturbed or problematic.
4.	Rubus chamaemorus	1		FACW	Plot size (radius, or length x width) 10m
5.		0			% Cover of Wetland Bryophytes 90
6.		0			(Where applicable)
7.		0			% Bare Ground
8.		0			Total Cover of Bryophytes90
10.		0			Hydrophytic
	Total Cover:	47			Vegetation
	50% of Total Cover:	3.5 20%	of Total Cover:	9.4	Present? Yes \bullet No \bigcirc
Rem	arks:				

Depth	tion: (Describe to the depth needed to docu Matrix		eded to docu	ument the indicator or confirm the absence of indicators) Redox Features					_	
(inches)	Color (mo	oist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100						Fibric Organics	
2-4			100						Hemic Organics	
4-17	5YR	4/1	90	10YR	3/4	10	C	PL	Silt Loam	sand inclusions
^L Type: C=Cor	ncentration. D=	=Depletion.	. RM=Reduc				-		annel. M=Matrix	
Hydric Soil I	ndicators:						c Hydric So	oils: ³		
	r Histel (A1)				a Color Cha		-	L	Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
Histic Epip					a Alpine sw	-	-	Г	, , ,	1.3
,	Sulfide (A4)			🔄 АІазк	a Redox W	ith 2.51 г	Hue	L	☐ Other (Explain in Remar	KS)
	k Surface (A12))							mary indicator of wetland	hvdrology,
🔜 Alaska Gle							pe position i			
	dox (A14) eyed Pores (A1!	٤)		4 Give d	etails of col	lor chang	e in Remark	ĸs		
	er (if present)							1		
Restrictive Laye									··· · · · · · · · · · ·	
Type: Silt	Loam								Hydric Soil Present	t? Yes 🔿 No 🖲
_	Loam								Hydric Soil Present	t? Yes 🔾 No 🖲
Type: Silt Depth (inch Remarks: IYDROLO Wetland Hydd Primary Indica Surface W High Wate Saturation	Loam hes): 4 OGY rology Indica ators (any one i Vater (A1) er Table (A2) n (A3)	ators:)	Spa	arsely Vege rl Deposits	tated Cor (B15)	verial Image			icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
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Remarks: