WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date: 27-Aug-15
Applicant/Owner: Alaska Energy Authority		Samp	ling Point: SW15_T330_07
Investigator(s): AFW	Landform (hills	side, terrace, hummocks etc.):	Terrace
Local relief (concave, convex, none): hummocky	Slope: 0.0	% / 0.0 ° Elevation:	-
Subregion : Interior Alaska Mountains	Lat.:	Long.:	Datum: WGS84
Soil Map Unit Name:		NWI class	sification: PSS1/EM1E
	of year? Yes (ificantly disturbed? irally problematic?	No (If no, explain i Are "Normal Circumstances (If needed, explain any ans	s" present? Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showin	g sampling point	locations, transects, impo	ortant features, etc.
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes 🔍 No 🔾		the Sampled Area	
Watland Hydrology Dropont? Ves 🔍 No 🔿	wi	thin a Wetland?	Yes 🖲 No 🔾

Domorkov

Wetland Hydrology Present?

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

Yes 💿 No 🔿

		۵he	solute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species
1.		-				That are OBL, FACW, or FAC: (A)
2.						Total Number of Dominant
		-				Species Across All Strata: 5 (B)
3.		-				Percent of dominant Species
4.		_				That Are OBL, FACW, or FAC: (A/B)
5.		_				Prevalence Index worksheet:
	Total Cove	r: _	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	_ 20%	of Total Cover:	0	OBL Species <u>3.1</u> x 1 = <u>3.1</u>
1.	Salix pulchra		50	\checkmark	FACW	FACW Species <u>77</u> x 2 = <u>154</u>
2.	Betula glandulosa		15	\checkmark	FAC	FAC Species <u>30</u> x 3 = <u>90</u>
3.			0			FACU Species 5 x 4 = 20
4.			0			UPL Species $0 \times 5 = 0$
5.			0			
			0			Column Totals: <u>115.1</u> (A) <u>267.1</u> (B)
•••			0			Prevalence Index = B/A = 2.321
			0	\square		Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
		-	0			
10.		-				Prevalence Index is ≤3.0
	Total Cover b Stratum 50% of Total Cover:		<u>65</u>	of Total Cover:	10	Morphological Adaptations (Provide supporting data in
Her	b Stratum 50% of Total Cover: _	32.5	_ 20%		13	Remarks or on a separate sheet)
1.	Petasites frigidus	_	12		FACW	Problematic Hydrophytic Vegetation (Explain)
2.	Rubus chamaemorus	_	8	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Arctagrostis latifolia	_	7	\checkmark	FACW	be present, unless disturbed or problematic.
4.	Rumex arcticus	_	5		FAC	Plot size (radius, or length x width) 10m
5.	Polemonium acutiflorum	_	5		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.	Calamagrostis canadensis	_	5		FAC	(Where applicable)
7.	Carex aquatilis		3		OBL	% Bare Ground45
8.	Poa pratensis ssp. alpigena		3		FACU	Total Cover of Bryophytes 50
9.	Mertensia paniculata	-	2		FACU	
10.	Comarum palustre	-	0.1		OBL	Hydrophytic
	Total Cover	- r:	50.1			Vegetation
	50% of Total Cover:			of Total Cover:	10.02	Present? Yes No
Dom	arks:					
Nelli	iu iu					

Depth	N	latrix			Red	lox Featu	res	ators)		
(inches)	Color (moi	st)	%	Color (m	oist)	%	Type ¹	Loc 2	Texture	Remarks
0-4			100						Mucky Peat	
4-15	5Y	4/1	70	10YR	3/3	25	С	PL	Silt Loam	
+mottle				10YR	4/1	5	С	PL	Silt Loam	oxidized rhizoshpers along living roots
15-18			100						Mucky Peat	w mineral
										_
	. <u> </u>							÷	- ,	
								-		
1					2					
Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce						annel. M=Matrix	
Hydric Soil I	ndicators:						Hydric So	oils: ³	_	
	r Histel (A1)				ka Color Ch				Alaska Gleyed Without H Underlying Layer	Hue 5Y or Redder
	pedon (A2)				ka Alpine sv	``	,			-kc)
	Sulfide (A4)				ka Redox W	ntn 2.5Y H	ue	.		<i>(w)</i>
Alaska Gle	k Surface (A12)								mary indicator of wetland	hydrology,
Alaska Gle				and an	appropriate	e landscap	e position r	nust be pr	esent	
	eved Pores (A15)		⁴ Give d	letails of co	lor chang	e in Remark	S		
Restrictive Laye	er (if precent):									
Type:	er (ir present).								Hydric Soil Present	t? Yes 🖲 No 🔾
Depth (inch	hes):									
Remarks:										
	with value and	chroma too	low to qua	alify for A1	4 nositive	reaction t	o alnha alr	ha dinvrid	ol	
			, ion to que	,	, in posicire		o aipila, aip			
		iors:							Secondary Ind	licators (buo as more are required)
Wetland Hyd	rology Indicat									licators (two or more are required)
Wetland Hydr	rology Indicat ators (any one is				undation Vi	sible on A	erial Image	rv (B7)	Water Sta	ined Leaves (B9)
Wetland Hyd	rology Indicat ators (any one is Vater (A1)						erial Image		Water Sta	
Wetland Hydr Primary Indica	rology Indicat ators (any one is Vater (A1) er Table (A2)			🗌 Sp		etated Cor	-		Water Sta	ined Leaves (B9) Patterns (B10)
Wetland Hydro Primary Indica Surface W High Wate	rology Indicat ators (any one is Vater (A1) er Table (A2) n (A3)			🗌 Sp	arsely Vege	etated Cor (B15)	icave Surfac		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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