WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date	: 01-Aug-13
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point:	SW13_T202_05
Investigator(s): CTS, AMD	Landform (hills	ide, terrace, hummocks etc.):	Floodplain	
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation: 671		
Subregion : Interior Alaska Mountains Lat.:	63.39646667	Long.: -148.537		Datum: WGS84
Soil Map Unit Name:		NWI classi	fication: PSS1	IC
	ar? Yes (itly disturbed? problematic?	 No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ 	present? Ye	es
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, impor	tant features	s, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \bullet No \bigcirc	
Remarks:					

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.		0			That are OBL, FACW, or FAC:6(A)
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)
3.		0			
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 55.1 x 1 = 55.1
1.	Myrica gale	55	\checkmark	OBL	FACW Species 22.1 x 2 = 44.20
2.	Salix alaxensis	30	\checkmark	FAC	FAC Species <u>35.2</u> x 3 = <u>105.6</u>
3.	Solix risbordoonii	20		FACW	FACU Species 0 x 4 = 0
4.	Salix pseudomonticola	3		FAC	UPL Species $0 \times 5 = 0$
	Salix pulchra	2		FACW	Column Totals: <u>112.4</u> (A) <u>204.9</u> (B)
6.	Dasiphora fruticosa	2		FAC	
7.					Prevalence Index = B/A = <u>1.823</u>
					Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
		0			✓ Prevalence Index is \leq 3.0
	Total Cover:	112			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:		6 of Total Cover:	22.4	Remarks or on a separate sheet)
1.	Calamagrostis canadensis	0.1	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis	0.1	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Parnassia palustris	0.1	\checkmark	FACW	be present, unless disturbed or problematic.
4.	Equisetum arvense	0.1		FAC	Plot size (radius, or length x width)
5.		0			% Cover of Wetland Bryophytes
6.		0			(Where applicable)
					% Bare Ground
8.		0			Total Cover of Bryophytes 0
		0			Hydrophytic
	Total Cover:	0.4			Vegetation
	50% of Total Cover:(0.2 20%	of Total Cover:	0.08	Present? Yes No
Rem	arks: Lichen = 0. Slow with substantial low Myrgal in	understor	y below low w	illows on g	ravel bar

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Profile Descript Depth		Matrix			Red	ox Featu	res		_	
(inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	5Y	4/2	100						Loamy Sand	
8-20	5Y	4/2	70	10YR	4/6	30	C	PL	Sandy Loam	
					-					
										-
										_
									<u></u>	
		,				-				
1					2					
Type: C=Co	ncentration. D=	=Depletion	. RM=Redu				-		annel. M=Matrix	
Hydric Soil I	ndicators:						c Hydric So	oils: ³	_	
Histosol o	r Histel (A1)			Alask	a Color Ch	ange (TA	4)		Alaska Gleyed Without I	lue 5Y or Redder
Histic Epip	oedon (A2)				a Alpine sv	•	,	_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alask	a Redox W	/ith 2.5Y H	lue		Other (Explain in Remai	·ks)
	k Surface (A12))		3 One in	dicator of	hvdronhvt	ic vegetatio	n. one nrir	mary indicator of wetland	hydrology.
Alaska Gle							be position r			nyalology,
✓ Alaska Re		-)		4 Give d	etails of co	lor chang	e in Remark	s		
Alaska Gle	eyed Pores (A1	5)						-		
Restrictive Laye	er (if present):									
Type:									Hydric Soil Presen	t? Yes $ullet$ No $igloo$
Depth (incl Remarks:	hes):									
	hes):									
Remarks:										
Remarks:		itors:							Secondary Inc	icators (two or more are required)
Remarks: HYDROLO Wetland Hyd	GY		:)							icators (two or more are required) ined Leaves (B9)
Remarks: HYDROLO Wetland Hyd Primary Indica	GY rology Indica		:)	Inu	undation Vi	sible on A	erial Image	у (В7)	Water Sta	
Remarks: HYDROLO Wetland Hyd Primary Indica Surface V	GY rology Indica ators (any one		:)				erial Imagen		Water Sta	ined Leaves (B9)
Remarks: HYDROLO Wetland Hyd Primary Indica Surface V	GY rology Indica ators (any one Vater (A1) er Table (A2)		:)	Spa		etated Cor	-		Water Sta	ined Leaves (B9) Patterns (B10)
Remarks: IYDROLO Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma	GY rology Indica ators (any one Vater (A1) er Table (A2) n (A3) ırks (B1)		;)	Spa Ma	arsely Vege	etated Cor (B15)	ncave Surfac		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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