WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Dat	e: 30-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T172_06
Investigator(s): WAD, RWM	Landform (hills	ide, terrace, hummocks etc.): Toeslope	
Local relief (concave, convex, none): concave	Slope: 7.0	% / 4.0 ° Elevation: 904	
Subregion : Interior Alaska Mountains Lat.:	63.271975517	Long.: -148.256913543	Datum: WGS84
Soil Map Unit Name:		NWI classification: PSS	61B
	ar? Yes ⁽ htly disturbed? problematic?	(res
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	ocations, transects, important feature	s, etc.

Hydrophytic Vegetation Present?Yes ●No ○Hydric Soil Present?Yes ●No ○Wetland Hydrology Present?Yes ●No ○	Is the Sampled Area within a Wetland? Yes ● No ○
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Remarks: Toe of shallow drainage slope. willow dominant with gram and obligate dominated openings. somewhat channelized.

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

			Absolute		Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum		% Cover		Species?	Status	Number of Dominant Species					
1.				0			That are OBL, FACW, or FAC: <u>2</u> (A)				
2.				0			Total Number of Dominant Species Across All Strata: 2 (B)				
3.				0							
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
4. 5.				-							
5.		T .1.10.		0			Prevalence Index worksheet:				
Total Cover:				0			Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species <u>1</u> x 1 = <u>1</u>				
1.	Salix pulchra			75	\checkmark	FACW	FACW Species <u>82</u> x 2 = <u>164</u>				
	Calin hanalari			5		FAC	FAC Species x 3 =123				
3.				0			FACU Species $3.1 \times 4 = 12.4$				
4.				0			UPL Species $0 \times 5 = 0$				
				0							
				0			Column Totals: <u>127.1</u> (A) <u>300.4</u> (B)				
							Prevalence Index = B/A =2.363				
				0							
				0			Hydrophytic Vegetation Indicators:				
				0			✓ Dominance Test is > 50%				
10.				0			✓ Prevalence Index is ≤3.0				
Total Cover:							Morphological Adaptations ¹ (Provide supporting data in				
Herb Stratum 50% of Total Cover:		40	_ 20%	of Total Cover:	16	Remarks or on a separate sheet)					
1.	Equisetum arvense			35	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Arctagrostis latifolia			5		FACW	¹ Indicators of hydric soil and wetland hydrology must				
3.	Rubus arcticus (IAM)			3		FACU	be present, unless disturbed or problematic.				
4.	Parnassia palustris			2		FACW					
5.	Comarum palustre			1		OBL	Plot size (radius, or length x width) <u>10m</u>				
6.	Polemonium acutiflorum			1		FAC	% Cover of Wetland Bryophytes (Where applicable)				
7.	Galium boreale			0.1		FACU	% Bare Ground				
8.				0			Total Cover of Bryophytes				
Q				0							
				0							
10.		Total Cover		47.1			Hydrophytic Vegetation				
		50% of Total Cover: _2			of Total Cover	9.42	Present? Yes • No				
				20/0		J.42					
Rem	arks:										

Depth	I		Redox Features					_			
(inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2			100						Fibric Organics	Fibric Organics	
2-14	2.5Y	3/1	70	2.5YR	4/6	30	C	PL	Clay Loam		
										_	
	· ·										
									·		
¹ Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc				-		annel. M=Matrix		
Hydric Soil Iı	ndicators:						Hydric So	oils:"	_		
Histosol or	Histel (A1)				ka Color Ch		-	L	Alaska Gleyed Without I	Hue 5Y or Redder	
Histic Epip	edon (A2)			_	ka Alpine sv	•	,	F	Underlying Layer		
Hydrogen	Sulfide (A4)			🖌 Alas	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Rema	rks)	
Thick Dark	Surface (A12))		3 0	dicator of	budror by t	ic vocat-t	n ono'	nony indicator of wetle set	hydrology	
Alaska Gle	yed (A13)						ic vegetatio e position r		mary indicator of wetland esent	nyarology,	
Alaska Rec	dox (A14)					•	•	•			
Alaska Gle	yed Pores (A15	5)		4 Give d	letails of co	olor change	e in Remark	s			
_	er (if present):								Undria Cail Brasser	t? Yes 🖲 No 🤇	
Type: clay Depth (inch									Hydric Soil Presen	t? res 🖲 No 🤇)
IYDROLO	GY										
	rology Indica	tors:							Secondary Inc	licators (two or more are	required)
rimary Indica	tors (any one i	s sufficient)							ained Leaves (B9)	
Surface W	/ater (A1)			🗌 Ini	undation Vi	sible on A	erial Image	ry (B7)	🗌 Drainage	Patterns (B10)	
High Wate	er Table (A2)			🗌 Sp	arsely Vege	etated Con	cave Surfac	e (B8)	Oxidized	Rhizospheres along Living	Roots (C3)
 Saturation 	n (A3)			Ma	Irl Deposits	(B15)			Presence	of Reduced Iron (C4)	
Water Ma	rks (B1)			🗌 Ну	drogen Sul	fide Odor	(C1)		Salt Depo	osits (C5)	
Sediment	Deposits (B2)			🗌 Dr	y-Season W	Vater Table	e (C2)		Stunted o	or Stressed Plants (D1)	
Drift Depo	osits (B3)			Ot	her (Explaiı	n in Rema	rks)		Geomorp	hic Position (D2)	
Algal Mat	or Crust (B4)								✓ Shallow A	quitard (D3)	
Iron Depo	osits (B5)								Microtopo	ographic Relief (D4)	
Surface So	oil Cracks (B6)								🖌 FAC-neuti	ral Test (D5)	
ield Observa	ations:	\sim	\sim								
Surface Water	Present?	Yes \bigcirc	No 🖲	De	epth (inches	s):					
Water Table P	Present?	Yes \bigcirc	No 🖲	De	pth (inche	s):		Wetla	nd Hydrology Prese	nt? Yes 🖲 No 🤇	\supset
Saturation Pre (includes capil		Yes 🖲	No \bigcirc	De	epth (inches	s): 2					
escribe Record	ded Data (stre	am gauge,	monitor we	ell, aerial pl	hotos, prev	ious inspe	ction) if ava	ilable:			
omarke											
Remarks:	arby cuprost-	a wet ead-	o moodow-								
chicssions life	arby supportin	y wei seug									