WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Samplir	ng Date: 07-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T134_06
Investigator(s): WAD, BAB	Landform (hills	ide, terrace, hummocks etc.): Chann	el (active)
Local relief (concave, convex, none): concave	Slope:	% / 3.9 ° Elevation: 829	
Subregion : Southcentral Alaska Lat.:	62.687805771	6 Long.: -148.745749712	Datum: NAD83
Soil Map Unit Name:		NWI classification	EPEM1F
	ar? Yes (htly disturbed? problematic?	 No (If no, explain in Remark Are "Normal Circumstances" present (If needed, explain any answers in Remark 	? Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	ocations, transects, important fe	atures, etc.

Hydrophytic Vegetation Present?	Yes 🖲	No O	Is the Sampled Area	
Hydric Soil Present?	Yes 🖲	No O	•	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				

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

۵b				bsolute Dominant I		Indicator	Dominance Test worksheet:		
Tree Stratum			% Cover Species?		Status	Number of Dominant Species			
1.			-	0			That are OBL, FACW, or FAC: <u>3</u> (A)		
2.				0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.				0					
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
 5.				0					
5.		Total Cover		0			Prevalence Index worksheet:		
_					of Total Courses		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species30 x 1 =30		
1.	Salix pulchra			5	\checkmark	FACW	FACW Species <u>5.2</u> x 2 = <u>10.4</u>		
2.				0			FAC Species x 3 =		
3.				0			FACU Species x 4 =		
4.				0			UPL Species x 5 =		
5.				0			Column Totals: <u>35.2</u> (A) <u>40.4</u> (B)		
				0					
				0			Prevalence Index = B/A = 1.148		
				0			Hydrophytic Vegetation Indicators:		
				0			✓ Dominance Test is > 50%		
10.				0			✓ Prevalence Index is ≤ 3.0		
		Total Cover		5			Morphological Adaptations ¹ (Provide supporting data in		
					of Total Cover:	1	Remarks or on a separate sheet)		
1.	Carex aquatilis			20	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Eriophorum angustifolium			10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Sanguisorba canadensis			0.1		FACW	be present, unless disturbed or problematic.		
4.	Viola palustris			0.1		FACW	Plot size (radius, or length x width) 10m		
5.				0					
				0			% Cover of Wetland Bryophytes (Where applicable)		
				0			% Bare Ground		
				0			Total Cover of Bryophytes		
				0					
			-	0			Hydrophytic		
		Total Cover		30.2			Vegetation		
		50% of Total Cover:			of Total Cover:	6.04	Present? Yes \bullet No \bigcirc		
Remarks:									

SOI	L

		ne depth neede atrix	d to docume	nt the indicator or co	onfirm the ab		cators)				
Depth (inches)	Color (mois	st) 9	// (Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
		<u> </u>	<u> </u>								
								-			
	· · · · ·										
¹ Type: C=Con	centration. D=[Depletion. RM	1=Reduced	Matrix ² Locatio	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:		1	Indicators for Pi	roblemati	c Hydric S	oils:				
-	Histel (A1)		[Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	. ,		[Alaska Alpine				Underlying Layer			
	Sulfide (A4)		[Alaska Redox	With 2.5Y I	Hue	\checkmark	Other (Explain in Remark	is)		
Thick Dark	Surface (A12)										
Alaska Gley	yed (A13)			³ One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red	iox (A14)										
Alaska Gley	yed Pores (A15)	1		⁴ Give details of c	olor chang	e in Remar	ks				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes 🖲 No 🔿		
Depth (inch	es):							-			
Remarks:											
assume hydric s	soil due to hydro	ophytic veget	ation and i	nundation.							
HYDROLO	-										
Wetland Hydr								_	cators (two or more are required)		
	tors (any one is	sufficient)							ned Leaves (B9)		
Surface W				Inundation V		5	, , ,	Drainage Patterns (B10)			
	er Table (A2)			Sparsely Veg		ncave Surta	ice (B8)	_	hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposit	. ,	(CA)		Salt Depos	f Reduced Iron (C4)		
Water Mar				Hydrogen Su							
	Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)										
	or Crust (B4)				In III Keina	irks)			uitard (D3)		
Iron Depos	()							_	raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa								-			
Surface Water		Yes 💿	No 🔿	Depth (inche	es): 5						
Water Table P		Yes 🔿 🛛		Depth (inche			Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔿		
Saturation Pres									· · · · · · · · · · · · · · · · · · ·		
(includes capil		Yes 🔿 I	No 💌	Depth (inche	es): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:	_	_	_		_	_					