WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T41_02
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Swale
Local relief (concave, convex, none): concave	Slope: 0.0 % / 0.0 ° Elevation: 846
Subregion : Interior Alaska Mountains Lat.:	62.8035949114 Long.: -148.015501645 Datum: WGS84
Soil Map Unit Name:	NWI classification: PEM1F
	ar? Yes ● No ○ (If no, explain in Remarks.) tly disturbed? Are "Normal Circumstances" present? Yes ● No ○ problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

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

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

		Abso	luto	Dominant	Indicator	Dominance Test worksheet:	
Tree	e Stratum		% Co		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)
			-	0			
5.		Total Cover:	-	-			Prevalence Index worksheet:
					T		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20% Of	Total Cover:	0	OBL Species x 1 =90
1.	Salix barclayi			5	\checkmark	FAC	FACW Species x 2 =
2.				0			FAC Species <u>6</u> x 3 = <u>18</u>
3.			-	0			FACU Species <u>0</u> x 4 = <u>0</u>
				0			UPL Species x 5 =
				0			Column Totals: <u>96</u> (A) <u>108</u> (B)
				0			
				0			Prevalence Index = B/A = 1.125
				0			
				0			✓ Dominance Test is > 50%
			_	0			✓ Prevalence Index is ≤3.0
		Total Cover:	-	5			Morphological Adaptations ¹ (Provide supporting data in
Herl	b Stratum	50% of Total Cover:		_	f Total Cover:	1	Remarks or on a separate sheet)
1.	Comarum palustre			10		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis			80	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis			1		FAC	be present, unless disturbed or problematic.
4.				0			
				0			Plot size (radius, or length x width) <u>10m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground
				0			Total Cover of Bryophytes 10
				0			
			-	0			Hudronhutic
10.		Total Cover:	-	91			Hydrophytic Vegetation
		50% of Total Cover:4			Total Cover:	18.2	Present? Yes • No
			-				1

Remarks: trace epilobium sp. possibly carex lassiocarpa (long filliform lvs) in deeper water areas (topped boots, cannot get close enough to be sure).

	ion: (Describe to the depth Matrix	needed to docu		nfirm the ab		cators)			
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
				-			_		
¹ Type: C=Cor	ncentration. D=Depletio	on. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		Indicators for Pr	oblemati	c Hydric S	oils: ³			
Histosol or	r Histel (A1)		Alaska Color Cl		,		Alaska Gleyed Without Hue	e 5Y or Redder	
<u> </u>	edon (A2)		Alaska Alpine s		-		Underlying Layer		
Hydrogen			Alaska Redox V	With 2.5Y I	Hue		Other (Explain in Remarks)	
	< Surface (A12)		³ One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland hy	drology.	
Alaska Gle			and an appropriat						
Alaska Red	. ,		⁴ Give details of c	olor chang	e in Remarl	ks			
Alaska Gle	eyed Pores (A15)								
Restrictive Laye	er (if present):							\sim	
Type:							Hydric Soil Present?	Yes 🔍 No 🔾	
Depth (inch	nes):								
Remarks:									
H2S odor within	n upper 4in. no soil pit	due to inunda	ition.						
HYDROLO	GY								
Wetland Hyd	rology Indicators:						Secondary Indica	tors (two or more are required)	
Primary Indica	tors (any one is sufficie	ent)					Water Staine	ed Leaves (B9)	
✓ Surface W	/ater (A1)		Inundation V	isible on A	erial Image	ery (B7)	🗌 Drainage Pa	tterns (B10)	
	er Table (A2)		Sparsely Veg	etated Cor	ncave Surfa	ce (B8)		zospheres along Living Roots (C3)	
Saturation	. ,		Marl Deposit	. ,			_	Reduced Iron (C4)	
Water Ma	. ,		✓ Hydrogen Su				Salt Deposit		
	Deposits (B2)		Dry-Season V		• •		_	Stressed Plants (D1)	
Drift Deposits (B3) Other (Explain in Remarks)								Position (D2)	
📖 Algal Mat	or Crust (B4)						Shallow Aqu	itard (D3)	

Saturation Present? (includes capillary fringe)	$Yes \bigcirc $	No 🖲	Depth (inches):	
Describe Recorded Data (stread	m gauge, m	nonitor well, aeria	al photos, previous inspection) if avail	able:

Yes \bullet No \bigcirc

Yes 🔿 No 🖲

Remarks:

✓ Iron Deposits (B5)

Field Observations:

Surface Water Present?

Water Table Present?

Saturation Present?

Surface Soil Cracks (B6)

water depth ranges from 2-12+ in. iron floc and biogenic sheen, in large depression between adjacent knobs.

Depth (inches): 6

Depth (inches):

Yes 💿 No 🔾

Microtopographic Relief (D4)

▼ FAC-neutral Test (D5)

Wetland Hydrology Present?