WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date:	07-Aug-13
Applicant/Owner: Alaska Energy Authority	Sampling Point: Sw	13_T178_07
Investigator(s): BAB	Landform (hillside, terrace, hummocks etc.): Outwash plain	
Local relief (concave, convex, none): concave	Slope: 0.0 % / 0.0 ° Elevation: 949	
Subregion : Interior Alaska Mountains Lat.:	63.050351739 Long.: -148.325876951 Dat	tum: WGS84
Soil Map Unit Name:	NWI classification: PEM1E	
	r? Yes No (If no, explain in Remarks.) ly disturbed? Are "Normal Circumstances" present? Yes roblematic? (If needed, explain any answers in Remarks.)	• No 🔿
SUMMARY OF FINDINGS - Attach site map showing sa	noling point locations, transects, important features, e	tc.

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
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Remarks: small stream running through center. second small stream running from wetland to the west.

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: (A)	
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)	
3.			0				
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
 5.			0				
5.	_					Prevalence Index worksheet:	
		otal Cover:		(=		Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total C	over:	0 20%	of Total Cover:	0	OBL Species <u>14.1</u> x 1 = <u>14.1</u>	
1.	Salix pulchra		5	\checkmark	FACW	FACW Species <u>5</u> x 2 = <u>10</u>	
2.	Andromeda polifolia (IAM)		-	\checkmark	OBL	FAC Species $1 \times 3 = 3$	
3.	Salix reticulata		1		FAC	FACU Species <u>0</u> x 4 = <u>0</u>	
4.			0			UPL Species x 5 =	
5.			0			Column Totals: 20.1 (A) 27.10 (B)	
			0			$\begin{array}{c} \text{Column rotals.} \underline{20.1} (A) \underline{27.10} (B) \\ \end{array}$	
						Prevalence Index = B/A = <u>1.348</u>	
						Hydrophytic Vegetation Indicators:	
			0			✓ Dominance Test is > 50%	
			0			✓ Prevalence Index is ≤ 3.0	
		otal Cover:	8			Morphological Adaptations ¹ (Provide supporting data in	
Her	b Stratum 50% of Total			6 of Total Cover:	1.6	Remarks or on a separate sheet)	
1.	Carex aquatilis		7	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Carex rotundata		3	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Erionhorum angustifolium		2		OBL	be present, unless disturbed or problematic.	
4.	Trichophorum caespitosum		0.1		OBL	Plot size (radius, or length x width) 10m	
5.			0				
			-			% Cover of Wetland Bryophytes <u>20</u> (Where applicable)	
			-			% Bare Ground 2	
						Total Cover of Bryophytes 55	
			0			Hydrophytic	
-		otal Cover:	12.1			Vegetation	
	50% of Total C	Cover: <u>6</u>	-	of Total Cover:	2.42	Present? Yes No	
Rem	arks: wet bryophytes scosco						

Depth		atrix		ent the indicator or cor Rec	lox Featu				
(inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12			100					Fibric Organics	w some sands and silts.
12-16			50					Coarse Sand	sub ang gravel. w 50% org, leaves and root
¹ Type: C=Co	ncentration. D=I	Depletion. R		d Matrix ² Location				annel. M=Matrix	
Hydric Soil 1	Indicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
Histosol o	or Histel (A1)			Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder
 Histic Epi 	pedon (A2)			Alaska Alpine s		,	_	Underlying Layer	
✓ Hydrogen	sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	s)
Thick Dar	k Surface (A12)			3 One indicator of	hu du a n hu d	ie vezetatie		non indicator of watland h	v dvolog v
Alaska Gl	eyed (A13)			and an appropriat	e landscar	be position n	n, one prir nust be pri	nary indicator of wetland h esent	yarology,
Alaska Re	dox (A14)								
Alaska Gl	eyed Pores (A15)	1		⁴ Give details of co	blor chang	e in Remark	s		
	er (if present):								
Type:								Hydric Soil Present	? Yes $ullet$ No $igloo$
Depth (inc	nes).								
HYDROLO)GY								
	Irology Indicat	ors:						Secondary Indi	cators (two or more are required)
-	ators (any one is								ned Leaves (B9)
Surface V	Water (A1)			Inundation V	isible on A	erial Imager	v (B7)	🗌 Drainage F	atterns (B10)
✓ High Wat	ter Table (A2)			Sparsely Veg		-		Oxidized R	hizospheres along Living Roots (C3)
✓ Saturatio	n (A3)			Marl Deposits			()	Presence o	f Reduced Iron (C4)
🗌 Water Ma				Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)
Sediment	t Deposits (B2)			Dry-Season V					Stressed Plants (D1)
🗌 Drift Dep	osits (B3)			Other (Explai	n in Rema	rks)		Geomorph	ic Position (D2)
🗌 Algal Mat	t or Crust (B4)							Shallow Ac	uitard (D3)
🖌 Iron Dep	osits (B5)							Microtopog	raphic Relief (D4)
Surface S	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)
Field Observ	ations:	_	_						
Surface Wate	er Present?	Yes 🖲	No 🔿	Depth (inche	s): 1				
Water Table	Present?	Yes 🖲	No \bigcirc	Depth (inche	s): 0		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$
Saturation Pr (includes cap		Yes 🖲	No \bigcirc	Depth (inche	s): 0				
Describe Reco	rded Data (strea	m gauge, m	nonitor well	, aerial photos, prev	vious inspe	ection) if ava	ilable:		
Remarks:									
looks like wate	er is low,								