WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date:	10-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW1	3_T132_08
Investigator(s): WAD, BAB	Landform (hills	ide, terrace, hummocks etc.): Footslope	
Local relief (concave, convex, none): flat	Slope:	% / 0.6 ° Elevation: 893	
Subregion : Interior Alaska Mountains Lat.:	62.949141383	Long.: -148.374585391 Datu	m: NAD83
Soil Map Unit Name:		NWI classification: PSS1/EM	1B
	ar? Yes (tly disturbed? problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) 	No O
SUMMARY OF FINDINGS - Attach site map showing sar	mpling point	locations, transects, important features, et	С.

Hydrophytic Vegetation Present?	Yes 🖲	No O	In the Compled Area	
Hydric Soil Present?	Yes 🖲	No \bigcirc	Is the Sampled Area	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	Νο 🔾	within a Wetland?	
Remarks:				

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

٨٩٩					Indicator	Dominance Test worksheet:		
		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			Percent of dominant Species	
4.				0			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 $4 \times 1 = 4$	
1	Betula nana			25	\checkmark	FAC	FACW Species 22 x 2 = 44	
	Rhododendron tomentosum			15		FACW	FAC Species 75 x 3 = 225	
	Vaccinium uliginosum			10		FAC	FACU Species $0 \times 4 = 0$	
	Empotrum pigrum			10		FAC	UPL Species $0 \times 5 = 0$	
				5		FAC		
				0			Column Totals: <u>101</u> (A) <u>273</u> (B)	
				0			Prevalence Index = B/A = 2.703	
				0			Hydrophytic Vegetation Indicators:	
				0			✓ Dominance Test is > 50%	
10.				0			Prevalence Index is ≤ 3.0	
10 Total Cover: 6				65			Morphological Adaptations ¹ (Provide supporting data in	
Herb Stratum 50% of Total Cover: 32.5 20%					6 of Total Cover:	13	Remarks or on a separate sheet)	
1.	Carex bigelowii			25	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Rubus chamaemorus			5		FACW	¹ Indicators of hydric soil and wetland hydrology must	
3.	Carex aquatilis			4		OBL	be present, unless disturbed or problematic.	
4.	Eriophorum vaginatum			1		FACW	Plot size (radius, or length x width) 10m	
5.	Pedicularis labradorica			1		FACW	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes	
6.				0			(Where applicable)	
				0			% Bare Ground	
				0			Total Cover of Bryophytes	
				0				
				0			Hydrophytic	
		Total Cover	: _	36			Vegetation	
		50% of Total Cover:	18	20%	of Total Cover:	7.2	Present? Yes \bullet No \bigcirc	
Remarks:								

Profile Descript	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features							
Depth (inches)						Loc ²	Texture	Remarks
0-3	Color (moist)	<u>%</u> 100	Color (moist)	%	Type ¹	LOC	Fibric Organics	Kellerko
3-8		100					Hemic Organics	
							-	
8-10		100					Sapric Organics	
					_			
¹ Type: C=Co	ncentration. D=De	pletion. RM=Reduc	ced Matrix ² Location	1: PL=Por	e Lining. RC	C=Root Char	nnel. M=Matrix	
Hydric Soil I	ndicators:		Indicators for Pro	oblemati	c Hydric S	oils: ³		
✓ Histosol or	r Histel (A1)		Alaska Color Ch	ange (TA	4) 4		Alaska Gleyed Without Hu	ie 5Y or Redder
✓ Histic Epip	edon (A2)		Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)		Alaska Redox W	Vith 2.5Y H	lue		Other (Explain in Remark	5)
	< Surface (A12)		3 One indicator of	hydronhy	tic vegetatic	one nrim	nary indicator of wetland h	idrology
Alaska Gle			and an appropriate	e landscar	pe position i	must be pre	sent	yurology,
Alaska Rei	. ,		⁴ Give details of co	olor chang	e in Remarl	ks		
Alaska Gie	eyed Pores (A15)							
Restrictive Laye	er (if present):							
Type: sea							Hydric Soil Present	Yes $oldsymbol{\Theta}$ No $oldsymbol{O}$
Depth (incl	nes): 10							
Remarks:								
HYDROLO	GY							
Wetland Hyd	rology Indicator	5:					Secondary Indic	ators (two or more are required)
	itors (any one is su	ifficient)						ned Leaves (B9)
	Vater (A1)		Inundation Vi		-	, , ,		atterns (B10)
	er Table (A2)		Sparsely Vege		ncave Surfa	ce (B8)	_	nizospheres along Living Roots (C3)
Saturation			Marl Deposits	. ,	(61)			f Reduced Iron (C4)
	Deposits (B2)		Hydrogen Sul				Salt Deposi	Stressed Plants (D1)
			Dry-Season V		• •		_	c Position (D2)
· · ·	or Crust (B4)				TKS)		Shallow Aq	
	. ,							raphic Relief (D4)
	oil Cracks (B6)						FAC-neutra	
Field Observa	. ,							
Surface Wate	r Present?	res 🔿 No 🖲	Depth (inche	s): 0				
Water Table F	Present?	res No	Depth (inche	c)• 3		Wetlan	nd Hydrology Present	t? Yes 🖲 No 🔾
Saturation Pre		′es ● No ○						
(includes capi			Depth (inche	s): 1				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:								
Remarks:								
Kenunsi								