## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric	Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-13		
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T133_01		
Investi	gator(s): WAD, RWM		l	Landform (hillside, terrace, hummocks etc.): Toeslope				
Local r	elief (concave, convex, none): plana	r		Slope: 8.7 % / 5.0 ° Elevation: 773				
Subreg	ion : Interior Alaska Mountains		Lat.: 6	62.915424943 Long.: -148.064250946 Datum: WGS84				
Soil Ma	ip Unit Name:			NWI classification: PSS1B				
Are V Are V	regetation  , Soil  , or Hyd	rology	nificantly urally pro	disturbed?	(If nee	(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○  ded, explain any answers in Remarks.)  s, transects, important features, etc.		
	Hydric Soil Present?	es • No ○ es • No ○ es • No ○			the Sam thin a W	pled Area etland? Yes ● No ○		
<b>VEGE</b>	ETATION - Use scientific names		all spe		olot.	Dominance Test worksheet:		
Tree	e Stratum		Cover	Species?	Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: 7 (A)  Total Number of Dominant		
2.			0			Species Across All Strata:7 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		Total Cover:	0			Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of To	otal Cover:0	0	OBL Species x 1 =				
1.	Vaccinium uliginosum		45	✓	FAC	FACW Species 23 x 2 = 46		
2.	Empetrum nigrum		15	<b>✓</b>	FAC	FAC Species <u>96</u> x 3 = <u>288</u>		
3.	Betula nana		15	<b>✓</b>	FAC	FACU Species 0 x 4 = 0		
4.	Ledum decumbens		5		FACW	UPL Species <u>0</u> x 5 = <u>0</u>		
5.	Vaccinium vitis-idaea		5		FAC	Column Totals: <u>120</u> (A) <u>335</u> (B)		
6.	Picea mariana		3		FACW	Prevalence Index = B/A = 2,792		
7.	Salix pulchra				FACW	Trevalence index – DIA –		
8.	Salix richardsonii				FACW	Hydrophytic Vegetation Indicators:		
						✓ Dominance Test is > 50%		
10.						✓ Prevalence Index is ≤3.0		
		Total Cover: Total Cover: 45.	<u>91</u> 5 20%			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
			10	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.				<b>✓</b>	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.					FACW	be present, unless disturbed or problematic.		
4.			- 5		FACW	Plot size (radius, or length x width)		
5.	Coroy concessons (IAM)		1		FACW FAC	% Cover of Wetland Bryophytes		
6.	Panunaulua hyparharaua		1		OBL	(Where applicable)		
7. 8.						% Bare Ground		
						Total Cover of Bryophytes		
			0			Hydronhydia		
10.		Total Cover:	29	_		Hydrophytic Vegetation		
	50% of To	otal Cover: <u>14.5</u>		of Total Cover:	5.8	Present? Yes   No		
Rem	arks:	otal Cover: <u>14.5</u>	20% (	or rotal Cover:	5.8	- resent:		

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SOIL Sampling Point: SW13\_T133\_01

Profile Description		the depth nee	eded to docum	nent the inc		firm the ab		ators)				
Depth (inches)	Color (mo		%	Color (n		%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-7			100		,		-77-		Fibric Organics			
7-11			100						Hemic Organics			
11-16	10YR	2/2	70	5YR	3/4	30			Silt Loam			
				JIK					Site Edutii			
					-							
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil Indicators: Indicators for Problematic Hydric Soils. <sup>3</sup>												
Histosol or	Histel (A1)			Alas	ka Color Ch	ange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epipe	edon (A2)			Alas	ka Alpine sv	vales (TA	5)		Underlying Layer			
Hydrogen S	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue	L	Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12)	)		30						A dec		
Alaska Gley	/ed (A13)						ic vegetatio be position r		nary indicator of wetland h esent	ydrology,		
Alaska Red							•	•				
Alaska Gley	ed Pores (A1	5)		*Give (	details of co	ior change	e in Remark	.5				
Restrictive Laye	r (if present):											
Type: seas									Hydric Soil Present?	? Yes ● No O		
Depth (inch	es): 26											
HYDROLO	GY											
Wetland Hydr		tors:							Secondary Indic	cators (two or more are required)		
Primary Indicat	ors (any one	is sufficient)							Water Stained Leaves (B9)			
Surface Water (A1)					undation Vi	sible on A	erial Imagei	ry (B7)	Drainage Patterns (B10)			
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized R	nizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposits (B15)					Presence of	f Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Sulfide Odor (C1)					Salt Deposi	ts (C5)		
Sediment Deposits (B2)				Dry-Season Water Table (C2)						Stressed Plants (D1)		
Drift Depo	Uther (Explain in Remarks)					Geomorphi	c Position (D2)					
	or Crust (B4)								☐ Shallow Aq			
Iron Depo							_	raphic Relief (D4)				
	il Cracks (B6)							1	✓ FAC-neutra	l Test (D5)		
Field Observa		· ·	(									
Surface Water	Present?		No 💿	De	epth (inches	s):						
Water Table P	resent?	Yes 🕑	No O	De	epth (inches	s): 6		Wetla	nd Hydrology Present	t? Yes 🕙 No 🔾		
Saturation Prediction (includes capillation)		Yes •	No O	De	epth (inches	s): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
some small patches of surface water in scattered depressions												
some sman pace	iles of surface	e water iii s	cattered dep	JI C3310113								

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