## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-13
Applicant/Owner: Alaska Energy Authority	Sampling Point:SW13_T141_09
Investigator(s): BAB	Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky	Slope: 8.7 % / 5.0 ° Elevation: 1032
Subregion : Interior Alaska Mountains	at.: 63.2210182305 Long.: -148.257987835 Datum: WGS84
Soil Map Unit Name:	NWI classification: PSS1B
	icantly disturbed? Are "Normal Circumstances" present? Yes $\odot$ No $\bigcirc$
	ally problematic? (If needed, explain any answers in Remarks.) I sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$	
Remarks: wet graminoid meadows inte	rspersed in	the wet willows			

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

			Absolu	ute Don	ninant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Co		cies?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC:6(A)
2.				0			Total Number of Dominant
3.			_	0			Species Across All Strata:6 (B)
3. 4.			_	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
 5.			_	-			
5.			_	0			Prevalence Index worksheet:
		Total Cover:					Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0 2	20% of Tota	al Cover:	0	OBL Species <u>28</u> x 1 = <u>28</u>
1.	Salix pulchra		!	55	$\checkmark$	FACW	FACW Species <u>66</u> x 2 = <u>132</u>
2.				0			FAC Species <u>13</u> x 3 = <u>39</u>
3.				0			FACU Species x 4 =
4.				0			UPL Species 2 x 5 = 10
5.				0			Column Totals: 109 (A) 209 (B)
6.				0			
7.				0			Prevalence Index = B/A = <u>1.917</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is ≤3.0
		Total Cover:	5	5			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum	50% of Total Cover: 2			al Cover:	11	Remarks or on a separate sheet)
1.	Carex aquatilis		-	25		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Calamagrostis canadensis		_	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3	Equisetum arvense		_	2		FAC	be present, unless disturbed or problematic.
4	Comorium poliustro			3	$\square$	OBL	
5	Sodum roopo			5		FAC	Plot size (radius, or length x width) <u>10m</u>
6.	Polemonium pulcherrimum			2		UPL	% Cover of Wetland Bryophytes (Where applicable)
7.	Otellerie les sifelie			1	$\square$	FAC	% Bare Ground
7. 8.				5		FACW	
9.	Bubuo chomocmoruo		_	5		FACW	Total Cover of Bryophytes <u>10</u>
9. 10	Petasites frigidus		_	1		FACW	
10.		Total Cover:	_				Hydrophytic Vegetation
		50% of Total Cover:	_	4 20% of Tota	al Cover:	10.8	Present? Yes  No
						10.0	
Rem	arks: luzula parviflora 0.1						

(inches) c	color (moist)	%	Color (moist)	%	Type <sup>1</sup>	<b>Loc</b> <sup>2</sup>	Texture	Remarks
0-5		100		-70	Туре	LOC	Hemic Organics	
5-17		100					Sapric Organics	angular cobbles at 12 inches
<sup>1</sup> Type: C=Concentra	ation. D=Depletio	n. RM=Redu	ced Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	-
			Indicators for P		-			
Hydric Soil Indicat			Alaska Color C		4			
<ul> <li>Histosol or Histe</li> <li>Histic Epipedon</li> </ul>	. ,		Alaska Color C		-		Alaska Gleyed Without I Underlying Layer	The SY of Redder
Hydrogen Sulfide	. ,		Alaska Redox	•	,		Other (Explain in Remai	rks)
Thick Dark Surfa								,
Alaska Gleyed (A	( )		<sup>3</sup> One indicator of	fhydrophyt	ic vegetatio	n, one prin	nary indicator of wetland	hydrology,
Alaska Redox (A			and an appropria	te landscap	e position i	nust be pre	esent	
Alaska Gleyed Po	ores (A15)		<sup>4</sup> Give details of c	olor chang	e in Remark	S		
Restrictive Layer (if p								
Type:	lesent).						Hydric Soil Presen	t? Yes 🖲 No 🔾
							riyune son riesen	
Depth (inches): Remarks:								
Remarks:	y Indicators:						_Secondary Inc	licators (two or more are required)
Remarks: <b>HYDROLOGY</b> Wetland Hydrology Primary Indicators (a	any one is sufficie	nt)					Water Sta	ined Leaves (B9)
Remarks:	any one is sufficie A1)	nt)					Water Sta	ined Leaves (B9) Patterns (B10)
Remarks:	any one is sufficie A1) le (A2)	nt)	Sparsely Veg	getated Cor			Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Primary Indicators (a Surface Water ( Migh Water Tab Migh Water Tab Migh Saturation (A3)	any one is sufficie A1) le (A2)	nt)	Sparsely Veg	getated Cor s (B15)	icave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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scattered patches of open water, 5in deep. don't believe they meet the intent of A1, surface water.