## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: M	atanuska-Susitna Boroug	h Sampling Date	e: 08-Jul-13
Applicant/Owner: Alaska Energy Authority		Sa	mpling Point:	SW13_T131_02
Investigator(s): SLI, SCB	Landform (hillside	e, terrace, hummocks etc.	): Terrace	
Local relief (concave, convex, none): hummocky	Slope: 5.2 %	/ 3.0 ° Elevation:	1041	
Subregion : Interior Alaska Mountains Lat.:	62.973550439	Long.:148.27	7496934	Datum: WGS84
Soil Map Unit Name:		NWI c	assification: PSS	1B
Map Unit Name:       NWI classification: PSS1B         Simatic/hydrologic conditions on the site typical for this time of year?       Yes <ul> <li>No</li> <li>(If no, explain in Remarks.)</li> <li>Vegetation</li> <li>, Soil</li> <li>, or Hydrology</li> <li>naturally problematic?</li> <li>(If needed, explain any answers in Remarks.)</li> </ul>				
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point loo	cations, transects, im	portant feature	s, 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 $\bigcirc$
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Remarks: subalpine willow wetland, mix of low and tall salpul, patchy open/closed canopy cover.

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

		Abso	Absolute Dominant I		Indicator	Dominance Test worksheet:			
Tree 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					
0.		Total Cover		-			Prevalence Index worksheet:		
-					of Total Cover:	0	Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum		0	20%		0	OBL Species <u>10.1</u> x 1 = <u>10.1</u>		
1.	Salix pulchra		_	50	$\checkmark$	FACW	FACW Species <u>51.1</u> x 2 = <u>102.2</u>		
2.	Vaccinium uliginosum			30	$\checkmark$	FAC	FAC Species <u>40.1</u> x 3 = <u>120.3</u>		
3.	Dasiphora fruticosa			1		FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>		
4.	Betula glandulosa			1		FAC	UPL Species x 5 =		
5.	Spiraga atovanii		_	0.1		FACU	Column Totals: 101.4 (A) 233 (B)		
6.	Salix roticulata			3		FAC			
7.				1		FACW	Prevalence Index = B/A = 2.298		
8.	Salix fuscescens			0.1		FACW	Hydrophytic Vegetation Indicators:		
9.				0			✓ Dominance Test is > 50%		
10.			_	0			✓ Prevalence Index is ≤3.0		
		Total Cover	86	5.2			Morphological Adaptations <sup>1</sup> (Provide supporting data in		
0012				of Total Cover:	17.24	Remarks or on a separate sheet)			
1.	Carex aquatilis			10	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Equisetum arvense		_	5	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Sedum rosea		_	0.1		FAC	be present, unless disturbed or problematic.		
4.	Comarum palustre		-	0.1		OBL			
5.	Viola epipsila		_	0.1		FACW	Plot size (radius, or length x width) <u>10m</u>		
6.				0			% Cover of Wetland Bryophytes (Where applicable)		
				0			% Bare Ground 0		
				0			Total Cover of Bryophytes 60		
				0					
				0			Hydrophytic		
		Total Cover:	15	5.3			Vegetation		
		50% of Total Cover:			of Total Cover:	3.06	Present? Yes $\bullet$ No $\bigcirc$		
Rem	arks:								

SOIL

Profile Descript Depth	tion: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features		ators)						
(inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4								Fibric Organics	
4-12								Hemic Organics	
12-14						<u> </u>			subrounded cobbles
						· ·			
	. <u> </u>							· . <u></u>	
	. <u> </u>			,					
		Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location				annel. M=Matrix	
Hydric Soil I				Indicators for Pr		4	lis:	1	
	r Histel (A1)			Alaska Color Ch		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
Histic Epip				Alaska Alpine s	•	,		Other (Explain in Remark	ks)
	Sulfide (A4) k Surface (A12)				mui 2.31 F		L		- /
Alaska Gle	( )			<sup>3</sup> One indicator of	hydrophyt	ic vegetation	n, one prin	mary indicator of wetland h	nydrology,
Alaska Gle				and an appropriat	e landscap	e position n	nust be pre	esent	
	eyed Pores (A15	)		<sup>4</sup> Give details of co	olor change	e in Remarks	5		
Restrictive Lay	er (if present):								
Type:								Hydric Soil Present	? Yes 🖲 No 🔿
Depth (incl	hes):							-	
HYDROLO	GY								
	rology Indicat							Secondary Indi	cators (two or more are required)
·	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)
Surface V	. ,			Inundation V					Patterns (B10)
High Wat				Sparsely Veg		cave Surfac	e (B8)		hizospheres along Living Roots (C3)
Saturation				Marl Deposits	• •	(61)			of Reduced Iron (C4)
Water Ma	Deposits (B2)			Hydrogen Su				Salt Depos	Sits (CS) Stressed Plants (D1)
				Dry-Season V					ic Position (D2)
	or Crust (B4)					1K3)			quitard (D3)
Iron Depo									graphic Relief (D4)
Surface S	oil Cracks (B6)							FAC-neutra	
Field Observa	ations:								
Surface Wate	r Present?	$_{\sf Yes}$ $\bigcirc$	No 🖲	Depth (inche	s):				
Water Table R	Present?	Yes 🖲	No $\bigcirc$	Depth (inche	s): 7		Wetla	nd Hydrology Preser	nt? Yes 🖲 No 🔾
Saturation Pre (includes capi		Yes 🖲	No $\bigcirc$	Depth (inche					
		m gauge, i	nonitor wel	l, aerial photos, prev	vious inspe	ction) if ava	ilable:		
Remarks:									