## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna	Borough Sampling Date: 04-Jul-13					
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW13_T122_06					
Investigator(s): SLI, SCB	Landform (hillside, terrace, hummocks etc.): Lowland						
Local relief (concave, convex, none): none	Slope: 0.0 % / 0.0 ° Elev	ration: 740					
Subregion : Interior Alaska Mountains	62.856799364 Long.: -	148.471207023 Datum: WGS84					
Soil Map Unit Name:		NWI classification: PEM1E					
	ntly disturbed? Are "Normal Circ	o, explain in Remarks.) umstances" present? Yes  ● No  ○ in any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes  No							

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿			
Remarks: hgwsb adjacent to lowland pond.							

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

Abs		osolute Dominant		Indicator	Dominance Test worksheet:				
Tree Stratum		<u>% Cover</u>			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					
		Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0			
			<u> </u>				5012 5012		
	Betula nana			3		FAC			
2.	Andromeda polifolia (IAM)			0.1		OBL	FAC Species <u>3.1</u> x 3 = <u>9.3</u>		
3.	Picea mariana			0.1		FACW	FACU Species x 4 =		
4.				0			UPL Species x 5 =		
5.				0			Column Totals:(A)55.7(B)		
6.				0					
				0			Prevalence Index = B/A = <u>1.255</u>		
				0			Hydrophytic Vegetation Indicators:		
				0			✓ Dominance Test is > 50%		
				0			✓ Prevalence Index is ≤3.0		
			3.2			Morphological Adaptations <sup>1</sup> (Provide supporting data in			
Herb Stratum 50% of Total Cover: 1.6		1.6	1.6 20% of Total Cover:		0.64	Remarks or on a separate sheet)			
1.	Eriophorum angustifolium			10	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Trichophorum caespitosum			10	$\checkmark$	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Carex rotundata			10	$\checkmark$	OBL	be present, unless disturbed or problematic.		
4.	Eriophorum russeolum			5		FACW			
5.	Carox aquatilia			5		OBL	Plot size (radius, or length x width) <u>10m</u>		
6.	Many anthan trifaliata		-	1		OBL	% Cover of Wetland Bryophytes (Where applicable)		
7.	Tofioldio nuoillo			0.1		FAC	% Bare Ground		
8.	Pinguicula villosa			0.1		OBL	Total Cover of Bryophytes 50		
9.	Drosera rotundifolia			0.1		OBL			
10.	Drosera anglica			0.1		OBL	Hydrophytic		
Total Cover: 41 4 Vegetation					Vegetation				
		50% of Total Cover:			of Total Cover:	8.28	Present? Yes $\odot$ No $\bigcirc$		
Rem	arks: trace carex livida						•		
Reff	unde carex invida								

	ofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)          Matrix       Redox Features					icators)				
Depth (inches)	Color (mois	it) %	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-8		1009					Fibric Organics			
8-12		1009	 /o				Hemic Organics			
							·	· · · · · · · · · · · · · · · · · · ·		
<sup>1</sup> Type: C=Co	ncentration. D=I	Depletion. RM=	Reduced Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		Indicators for P	roblemati	c Hydric S	isoils <sup>3</sup>				
Histosol o			Alaska Color (		4		Alaska Gleyed Without H	ie 5Y or Redder		
	pedon (A2)		Alaska Alpine	• •			Underlying Layer			
	Sulfide (A4)		Alaska Redox		-		Other (Explain in Remarks)			
	k Surface (A12)									
	eyed (A13)		<sup>3</sup> One indicator of	f hydrophy	tic vegetation	on, one prin	nary indicator of wetland h	ydrology,		
🗌 Alaska Re			and an appropria	ite ianoscaj	pe position	must be pre	esent			
🗌 Alaska Gle	eyed Pores (A15)	)	<sup>4</sup> Give details of	color chang	e in Remar	ks				
Restrictive Lay	er (if present):									
Type: froz	,						Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inc							Hydric Son Present			
Remarks:										
HYDROLO										
-	rology Indicat							cators (two or more are required)		
	ators (any one is	sufficient)						ned Leaves (B9)		
Surface V	. ,		Inundation		-			atterns (B10)		
	er Table (A2)		Sparsely Ve	-	ncave Surfa	ace (B8)		hizospheres along Living Roots (C3)		
Saturatio			Marl Deposi	. ,	(=)		_	f Reduced Iron (C4)		
Water Ma			Hydrogen S				Salt Depos			
	Deposits (B2)		Dry-Season		. ,		_	Stressed Plants (D1) c Position (D2)		
· · ·	or Crust (B4)				irks)		Shallow Aq	. ,		
								raphic Relief (D4)		
	ioil Cracks (B6)						FAC-neutra			
Field Observ										
Surface Wate		Yes 🖲 N	Depth (inch	es): 2						
Water Table I	Present?	Yes 💿 N		-		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pro				,			na nyarology ricoch			
(includes cap	illary fringe)	Yes 🖲 No								
Describe Reco	rded Data (strea	m gauge, moni	tor well, aerial photos, pro	evious inspe	ection) if av	vailable:				
Remarks:										
	depth excludes a	adiacent lowlar	d pond.							
		.,								