## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sa	ampling Date: 04-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling	Point: SW13_T122_01
Investigator(s): SLI, SCB	Landform (hills	ide, terrace, hummocks etc.):	errace
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation: 720	
Subregion : Interior Alaska Mountains Lat.:	62.859698534	Long.: -148.49259269	2 Datum: WGS84
Soil Map Unit Name:		NWI classific	ation: PEM1E
	ar? Yes ( tly disturbed? problematic?	No (If no, explain in Re Are "Normal Circumstances" pr (If needed, explain any answers)	esent? Yes 💿 No 🔾
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point I	ocations, transects, importa	nt features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ④ Yes ④ Yes ●	No	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿

Remarks: pem1e emergent community with pond in center. Photo time 09:45 #1167-1169

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

			Abco	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			over	Species?	Status	Number of Dominant Species
1.			-	0			That are OBL, FACW, or FAC: 7 (A)
2.	-			0			Total Number of Dominant Species Across All Strata: 7 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
 5.				0			
5.		Total Cover		0			Prevalence Index worksheet:
_					f Tatal Cause		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20% (	of Total Cover:	0	OBL Species <u>21.1</u> x 1 = <u>21.1</u>
1.	Andromeda polifolia (IAM)			0.1	$\checkmark$	OBL	FACW Species <u>2.1</u> x 2 = <u>4.2</u>
2.	Ledum decumbens			0.1	$\checkmark$	FACW	FAC Species <u>0.1</u> x 3 = <u>0.300</u>
3.	Det la const			0.1	$\checkmark$	FAC	FACU Species <u>0</u> x 4 = <u>0</u>
4.				0			UPL Species x 5 =
5.				0			Column Totals: 23.3 (A) 25.60 (B)
				0			
				0			Prevalence Index = B/A = <u>1.099</u>
				0			
				0			✓ Dominance Test is > 50%
				0			$\mathbf{V} \text{ Prevalence Index is } \leq 3.0$
10.		Total Cover		0.3			
Her	b Stratum	50% of Total Cover:			of Total Cover:	0.06	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Eriophorum angustifolium			5		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. 2.	Coroy limono			5		OBL	
	Carax raturdata			5		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. 4.	Trichophorum caespitosum			5		OBL	
4. 5				2		FACW	Plot size (radius, or length x width) <u>10m</u>
•.	Deserve angling			1		OBL	% Cover of Wetland Bryophytes
6.	lun au a bialunaia			0.1		OBL	(Where applicable)
7.				0.1		UBL	% Bare Ground
8.				0			Total Cover of Bryophytes98
10.				0			Hydrophytic
		Total Cover		23.1	f Tatal Cau		Vegetation Present? Yes O No O
		50% of Total Cover: _1	1.55	20% (	of Total Cover:	4.62	
Rem	arks: trace unidentifed carey	and juncus. Lodum and	d hotu	المم دار	on cmall hun	nmocks sr	mall pond in center of community, not included in

Remarks: trace unidentifed carex and juncus. Ledum and betula only on small hummocks. small pond in center of community, not included in vegetation percent cover.

Profile Description: (Describe to the depth needed to do  Pepth Pe				dox Featu		4615)			
	r (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-6	(	100			. 190		Fibric Organics		
6-17		100					Hemic Organics		
					· ·				
							· .		
·									
17 0.0			<u> </u>						
<sup>1</sup> Type: C=Concentratio							annel. M=Matrix		
Hydric Soil Indicators		1	Indicators for Pr		4	oils:	л		
Histosol or Histel (A	-	L	Alaska Color Cl				Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
Histic Epipedon (A2		L	Alaska Alpine s	•	,		, , ,		
Hydrogen Sulfide (A	4)	L	Alaska Redox V	Nith 2.5Y F	lue		Other (Explain in Remark	5)	
Thick Dark Surface	. ,		<sup>3</sup> One indicator of	hydrophyt	ic venetatio	n one prin	nary indicator of wetland h	vdrology	
Alaska Gleyed (A13)	-		and an appropriat					ydrology,	
Alaska Redox (A14)			<sup>4</sup> Give details of co	olor change	in Domark	<b>c</b>			
Alaska Gleyed Pores	s (A15)					5			
Restrictive Layer (if pres	ent):								
Type: frozen							Hydric Soil Present	? Yes $ullet$ No $igodom$	
Depth (inches): 17									
HYDROLOGY									
HYDROLOGY Wetland Hydrology Ir	ndicators:						Secondary Indi	cators (two or more are required)	
		)						cators (two or more are required) ned Leaves (B9)	
Wetland Hydrology Ir	one is sufficient	)	✓ Inundation V	isible on A	erial Imager	γ (B7)	Water Stai		
Wetland Hydrology In         Primary Indicators (any         Surface Water (A1)         High Water Table (	<u>one is sufficient</u> )	)	✓ Inundation V □ Sparsely Veg				Unater Stai	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)	
Wetland Hydrology In Primary Indicators (any Surface Water (A1)	<u>one is sufficient</u> )	)	Sparsely Veg	etated Cor s (B15)	cave Surfac		Water Stai Urainage F Oxidized R Presence c	ned Leaves (B9) 'atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)	
Wetland Hydrology In         Primary Indicators (any         ✓ Surface Water (A1)         ✓ High Water Table (         ✓ Saturation (A3)         Water Marks (B1)	one is sufficient) ) A2)	<u>.</u>	Sparsely Veg	etated Cor s (B15)	cave Surfac		Unater Stai	ned Leaves (B9) 'atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)	
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