## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: N	latanuska-Susitna Borough	Sampling Date: 0	7-Aug-12
Applicant/Owner: Alaska Energy Authority		Samplin	ng Point: SW12	_T36_05
Investigator(s): SLI, KMK	Landform (hillsid	e, terrace, hummocks etc.):	Terrace	
Local relief (concave, convex, none): flat	Slope: 0.0 %	/ 1.0 ° Elevation: 362	-	
Subregion : Southcentral Alaska Lat.:	62.7784832453	Long.: -149.648048	302 Datum	: WGS84
Soil Map Unit Name:		NWI classif	fication: PEM1/SS1E	
	ar? Yes tly disturbed? problematic?	No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answe	present? Yes 🖲	No 🔿
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point lo	cations, transects, import	tant features, etc.	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No O	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
Remarks: reticulated fen				

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

			Abso	olute	Dominant	Indicator	Dominance Test worksheet:
Tree	e Stratum			over	Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC: <u>3</u> (A)
2.				0			Total Number of Dominant Species Across All Strata: 3 (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:	_		of Total Cover	0	······································
Jap	ing/Sinub Scratum		0	20/01	_		OBL Species $65 \times 1 = 65$
1.	Myrica gale			15	$\checkmark$	OBL	FACW Species <u>1</u> x 2 = <u>2</u>
2.	Betula nana			2		FAC	FAC Species x 3 =6
3.	Vaccinium oxycoccos			2		OBL	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Andromodo polifolio			1		FACW	UPL Species x 5 =
5.				0			Column Totals: 68 (A) 73 (B)
6.				0			
				0			Prevalence Index = B/A = <u>1.074</u>
				0			Hydrophytic Vegetation Indicators:
~				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is $\leq 3.0$
		Total Cover		20			$\Box$ Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum_	50% of Total Cover:			of Total Cover:	4	Remarks or on a separate sheet)
1.	Scheuchzeria palustris			2		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Menyanthes trifoliata			2		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Trichophorum caespitosum			15	$\checkmark$	OBL	be present, unless disturbed or problematic.
4.	Eriophorum angustifolium			2		OBL	Diet eize (zedius, ez length y width)
5.	Eriophorum viridicarinatum			2		OBL	Plot size (radius, or length x width) <u>10m</u>
6.	Carex pauciflora			15	$\checkmark$	OBL	% Cover of Wetland Bryophytes (Where applicable)
7.	Dressre retundifalia			3		OBL	% Bare Ground 7
8.	Carey limesa			5		OBL	Total Cover of Bryophytes 90
9.	Carex livida			1		OBL	<u> </u>
10.	Carex aquatilis			1		OBL	Hydrophytic
		Total Cover		48			Vegetation
			24		of Total Cover:	9.6	Present? Yes • No
							1

Remarks: erigra multiple heads, conspicuous stem leaf, no reddish-purple. trices may be a mix of trices and trialp, not all distinctly cespitose but no trialp bristles. Droros includes 1% droang. Trace Calamagrostis lapponica (collected)

SOIL
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)   Matrix Redox Features										
Depth (inches)	Color (moist)	%	Color (m		%	Type <sup>1</sup>	Loc 2	Texture	F	lemarks
<u> </u>				Distj		1362	LUU	-		
·										
								-		
									=	
<sup>1</sup> Type: C=Concentr		etion. RM=				-		nnel. M=Matrix		
Hydric Soil Indica	itors:			tors for Prol		4	oils:	•		
Histosol or Histe	. ,			ska Color Cha	• •	,		Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder	
Histic Epipedon	(A2)		_	ska Alpine swa				, , ,		
Hydrogen Sulfid	le (A4)		🔄 Alas	ska Redox Wit	th 2.5Y H	ue	V	Other (Explain in Rem	arks)	
Thick Dark Surfa	. ,		3 One i	ndicator of h	wdronhyti	ic vegetatio	n one nrin	nary indicator of wetland	budrology	
Alaska Gleyed (A	A13)			appropriate					l Hyurology,	
Alaska Redox (A	A14)				-					
Alaska Gleyed P	Pores (A15)		• Give o	details of cold	or change	in Remark	S			
Restrictive Layer (if p	present):									
Туре:								Hydric Soil Prese	nt? Yes 🖲	No 🔿
Depth (inches):										
Remarks:							1			
no soil pit, assume h	wdric soils due	to inundat	ion and hydroph	vutic vocetativ	on					
	yunc sons auc			ylic vegetatio	011.					
HYDROLOGY										
Wetland Hydrolog	y Indicators							Secondary Ir	idicators (two or m	ore are required)
Primary Indicators (	•								tained Leaves (B9)	
Surface Water			 In	undation Visi	ible on Ae	erial Image	rv (B7)		e Patterns (B10)	
High Water Tab				parsely Veget		-				g Living Roots (C3)
Saturation (A3)				arl Deposits (					e of Reduced Iron (	
Water Marks (B				ydrogen Sulfi	. ,	(C1)		Salt Dep	•	0.)
Sediment Depo	-			ry-Season Wa				_	or Stressed Plants	(D1)
Drift Deposits (				ther (Explain				_	phic Position (D2)	(01)
Algal Mat or Cri					III Nemu	KS)		_	Aquitard (D3)	
✓ Iron Deposits (								_	ographic Relief (D <sup>2</sup>	IN
Surface Soil Cra	,							_	tral Test (D5)	r)
	. ,									
Field Observations Surface Water Pres		es 💿 No		epth (inches)	1. 2					
		$es \bigcirc Nc$		,				l Mardara la sur Dua a		
Water Table Presen Saturation Present?				epth (inches)			Wetia	nd Hydrology Pres	ent?Yes 🖲	No 🔿
(includes capillary f		es 🔿 No	) 🔍 De	epth (inches)	):					

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

standing water in flarks, iron floc and biogenic sheen