WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: N	/atanuska-Susitna Bo	orough Sampling Da	ite: 25-Jun-12	
Applicant/Owner: Alaska Energy Authority			Sampling Point:	SW12_T21_02	
Investigator(s): SLI, LMF	Landform (hillsid	e, terrace, hummock	s etc.): Lowland		
Local relief (concave, convex, none): hummocky	Slope: %	6.5 ° Elevat	tion: 747		
Subregion : Interior Alaska Mountains Lat.:	62.7816681568	Long.: _14	48.609355744	Datum: NAD83	
Soil Map Unit Name:		N	IWI classification: PS	S1B	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point lo	cations, transect	s, important feature	es, etc.	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland? Yes $ullet$ No $igodoldsymbol{ imes}$
Remarks:			

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

		Abso	lute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		over	Species?	Status	Number of Dominant Species
1.	Picea mariana		10	\checkmark	FACW	That are OBL, FACW, or FAC: <u>8</u> (A)
2.		. ,	0			Total Number of Dominant Species Across All Strata: 8 (B)
3.			0			Percent of dominant Species
4.			0	\square		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			0			
	Total Cover	· ·	10			Prevalence Index worksheet: Total % Cover of: Multiply by:
San	ling/Shrub Stratum 50% of Total Cover:	5		of Total Cover:	2	
Joup					-	
1.	Picea mariana	. ,	7		FACW	FACW Species <u>67</u> $x 2 = 134$
2.	Vaccinium vitis-idaea	. ,	10		FAC	FAC Species 34 x 3 = 102
3.	Vaccinium uliginosum		5		FAC	FACU Species <u>1</u> x 4 = <u>4</u>
4.	Empetrum nigrum		10	\checkmark	FAC	UPL Species x 5 =
5.	Salix pulchra	. ,	30	\checkmark	FACW	Column Totals: 108 (A) 246 (B)
6.	Salix reticulata		3		FAC	
7.	Picea glauca		1		FACU	Prevalence Index = B/A = 2.278
8.			0			Hydrophytic Vegetation Indicators:
-			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is ≤3.0
	Total Cover		66			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	33	20%	of Total Cover:	13.2	Remarks or on a separate sheet)
1.	Cornus suecica		3		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus		1		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum sylvaticum		1		FAC	be present, unless disturbed or problematic.
4.	Coptidium lapponicum		1 5	\checkmark	OBL	
5.	Petasites frigidus		7	\checkmark	FACW	Plot size (radius, or length x width) <u>10m</u>
6.	Polemonium acutiflorum		1		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.	Valeriana capitata		1		FAC	% Bare Ground 5
8.	Chrysosplenium tetrandrum		1		OBL	Total Cover of Bryophytes 90
9.	Equisetum palustre		5	\checkmark	FACW	<u></u>
10.	Arctagrostis latifolia		7	\checkmark	FACW	Hydrophytic
	Total Cover		32			Vegetation
	50% of Total Cover:			of Total Cover:	6.4	Present? Yes • No
Dam						1

Remarks: 2% viola sp (no inflorescence). ranunculus collected.

Depth	Matrix		Red	lox Featu			-	
	lor (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-4							Fibric Organics	
4-10							Hemic Organics	
10-12							Sapric Organics	
12-15 5	Y 3/1						Sandy Clay	sand fine to coarse
		· ·	,					
<u> </u>		. <u> </u>						
¹ Type: C=Concentrat	ion. D=Depletior	n. RM=Reduce	ed Matrix ² Location	: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix	
Hydric Soil Indicate	ors:		Indicators for Pro	oblemati	c Hydric S	oils: ³		
Histosol or Histel			Alaska Color Ch		4] Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A	. ,		Alaska Alpine s				Underlying Layer	
Hydrogen Sulfide	,		Alaska Redox W	Vith 2.5Y H	lue		Other (Explain in Remarl	<s)< td=""></s)<>
Thick Dark Surfac	. ,							
Alaska Gleyed (A1	.3)		³ One indicator of and an appropriat				nary indicator of wetland h	nydrology,
Alaska Redox (A14	-						esent	
Alaska Gleyed Por	es (A15)		⁴ Give details of co	olor chang	e in Remarl	s		
Restrictive Layer (if pre	esent).							
Type:							Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inches):								
Remarks:								
Kennarks.								
HYDROLOGY								
Wetland Hydrology							Secondary Indi	cators (two or more are required)
Primary Indicators (ar		nt)					_	ned Leaves (B9)
Surface Water (A	,		Inundation Vi	isible on A	erial Image	ry (B7)		Patterns (B10)
✓ High Water Table	e (A2)		Sparsely Vege		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)
Saturation (A3)			Marl Deposits	(B15)			_	of Reduced Iron (C4)
Water Marks (B1)			Hydrogen Sul		. ,		Salt Depos	
Sediment Deposit	()		Dry-Season V		. ,		_	Stressed Plants (D1)
Drift Deposits (B3			Other (Explain	n in Rema	rks)			ic Position (D2)
Algal Mat or Crus								quitard (D3)
Iron Deposits (B5								graphic Relief (D4)
Surface Soil Cracl	ks (B6)						FAC-neutra	al Test (D5)
Field Observations:		No 🔿						
Surface Water Presen			Depth (inche	s): 1				\sim
Water Table Present?	Yes (● No ○	Depth (inche	s): 10		Wetla	nd Hydrology Presen	it? Yes 🖲 No 🔾
Saturation Present? (includes capillary frim	nge) Yes	No O	Depth (inche	s): 3				
Describe Recorded Dat	ta (stream gauge	e, monitor wel	l, aerial photos, prev	vious inspe	ection) if ava	ailable:		
Remarks:								
surface water adjacent	t to and around p	bit						