WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date:	26-Jun-12
Applicant/Owner: Alaska Energy Authority		Samplin	ng Point: S	W12_T20_05
Investigator(s): SLI, LMF	Landform (hill	side, terrace, hummocks etc.):	Hillside	
Local relief (concave, convex, none): flat	Slope:	% / 5.5 ° Elevation: 592		
Subregion : Southcentral Alaska La	at.: 62.729688189	9 Long.: -148.825865	786 D	atum: NAD83
Soil Map Unit Name:		NWI classi	fication: PFO4B	6
	year? Yes cantly disturbed? Ily problematic?	No (If no, explain in Are "Normal Circumstances" (If needed, explain any answer	present? Yes	● No ○
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations, transects, import	tant features,	etc.

Hydrophytic Vegetation Present?	Yes 🖲	Νο Ο	la the Compled Area	
Hydric Soil Present?	Yes 🖲	Νο 〇	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				

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

			Absolute Dominant		Indicator	Dominance Test worksheet:		
Tree Stratum			<u>% Cover Species?</u>		Status	Number of Dominant Species		
1.	Picea mariana		30	\checkmark	FACW	That are OBL, FACW, or FAC:6 (A)		
2.	-		0			Total Number of Dominant Species Across All Strata: 6 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC:100.0% (A/B)		
5.			0			Prevalence Index worksheet:		
			30			Total % Cover of: Multiply by:		
Sap	bling/Shrub Stratum50% of T	Total Cover: <u>15</u>	20%	of Total Cover:	6	OBL Species $0 \times 1 = 0$		
1.	Picea mariana		10	\checkmark	FACW	FACW Species 73 x 2 = 146		
2.	O all a fallere		20	\checkmark	FACW	FAC Species x 3 =84		
3.			5		FAC	FACU Species x 4 =16		
4.	Vaccinium vitia idaga		5		FAC	UPL Species x 5 =		
5.	Dhadadandran graanlandiaum		2		FAC	Column Totals: 105 (A) 246 (B)		
6.	Empetrum nigrum		3		FAC			
7.	Spiraea stevenii		3		FACU	Prevalence Index = B/A = <u>2.343</u>		
8.	Betula neoalaskana		1		FACU	Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is \leq 3.0		
		Total Cover:	49			Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 24.5				9.8	Remarks or on a separate sheet)			
1.	Rubus chamaemorus		5	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Equisetum sylvaticum		10	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Potocitos frigidus		5	\checkmark	FACW			
4.	Arctagrostis latifolia		3		FACW	Plot size (radius, or length x width) <u>10m</u>		
5.	Cornus suecica		3		FAC	% Cover of Wetland Bryophytes		
6.			0			(Where applicable)		
7.			0			% Bare Ground		
8.			0			Total Cover of Bryophytes60		
9.			0					
10.			0			Hydrophytic		
Total Cover:			26			Vegetation		
	50% of 1	Total Cover: <u>13</u>	20%	of Total Cover:	5.2	Present? Yes No		
Rem	Remarks: abundant peltigera lichens							

Profile Descripti	•	the depth ne Matrix	eded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)							Loc 2	Texture	Remarks		
0-3	Color (mo	ist)	<u> </u>	Color (moist)	%	Type ¹	_Loc_	Fibric Organics	Keniarks		
3-10		3/2	100					Sandy Clay Loam			
			100	<u>_</u>					positive rxn to a,a-dipyridol		
	p	<u>.</u>					-		_		
		-Depletion	RM=Reduc	ed Matrix ² Location	PI = Por	e Linina RC	=Root Cha	nnel M=Matrix			
		-Depiction.	Ni-Reduc			-					
Hydric Soil I				Indicators for Pr		4	oils:	1			
	r Histel (A1)				Alaska Color Change (TA4)			Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	edon (A2)			Alaska Alpine s		-	\checkmark	Other (Explain in Remar	ks)		
	Sulfide (A4)				VIUI 2.51 F	lue	Ŀ				
	< Surface (A12))		³ One indicator of	hydrophyt	tic vegetatio	n, one prin	nary indicator of wetland	hydrology,		
🔛 Alaska Gle				and an appropriat	e landscap	pe position r	nust be pre	esent			
	eyed Pores (A14)	5)		⁴ Give details of co	olor chang	e in Remark	S				
		5)									
Restrictive Laye	er (if present):										
Type:					Hyd				lydric Soil Present? Yes $ullet$ No $igodoldsymbol{ o}$		
Depth (inch	nes):										
Remarks: alpha,alpha-dip	oyridol reaction	positive in	75+% of t	uppper 12in within 6() seconds.						
HYDROLO	GY										
Wetland Hyd		tors:						Secondary Ind	icators (two or more are required)		
Primary Indica	itors (any one i	is sufficient)					Water Sta	ined Leaves (B9)		
Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10)							Patterns (B10)				
✓ High Wate	()			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)			
Saturation				Marl Deposits	. ,			✓ Presence of Reduced Iron (C4)			
Water Marks (B1)						Salt Deposits (C5)					
Sediment Deposits (B2)							Stunted or Stressed Plants (D1)				
Drift Deposits (B3) Other (Explain in Remarks)							Geomorphic Position (D2)				
	or Crust (B4)							_	quitard (D3)		
Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutr	ai iest (D5)		
Field Observa		Vec (No O	Donth (in-t-							
Surface Water		-	-	Depth (inche			NA - +1	n d Haadwale D			
Water Table P			No O	Depth (inche	s):		wetla	nd Hydrology Preser	nt? Yes $ullet$ No $igodot$		
Saturation Pre	esent?	Yes 🖲	No \bigcirc	Depth (inche	s):						

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: ponded water in game trails

Remarks:

hiked past several seeps in this community. standing water (2in) in game trails. Rain, difficult to tell depth of saturation/water table, but within upper 12in.

Depth (inches):

(includes capillary fringe)