## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Dat	te: 06-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T112_01
Investigator(s): SLI, SCB	Landform (hills	ide, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): none	Slope:	% / <u>5.8</u> ° Elevation: <u>809</u>	
Subregion : Interior Alaska Mountains Lat.:	62.786011219	1 Long.: -148.267367721	Datum: NAD83
Soil Map Unit Name:		NWI classification: PS	S1B
	ar? Yes ( tly disturbed? problematic?	<ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present?</li> <li>(If needed, explain any answers in Remark</li> </ul>	Yes • No O
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	ocations, transects, important feature	es, etc.

Hydrophytic Vegetation Present?	Yes 🖲	No O	Is the Sampled Area	
Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ●	No () No ()	within a Wetland?	Yes $\bullet$ No $\bigcirc$
Remarks:				

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

			Absolute Dominant		Indicator	Dominance Test worksheet:	
Tree Stratum			Cover	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: 4 (B)	
3.		_	0			Percent of dominant Species	
4.			0			That Are OBL, FACW, or FAC:	
5.		_	0				
	Total Cove	er:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$	
1.	Betula nana		20		FAC	FACW Species $31$ x 2 = $62$	
			40	$\checkmark$	FAC	FAC Species <u>76.1</u> x 3 = <u>228.3</u>	
3.	Vaccinium vitio idooo		10		FAC	FACU Species 5.1 x 4 = 20.4	
4.	Rhododendron tomentosum		20	$\checkmark$	FACW	UPL Species $0 \times 5 = 0$	
5.	Coliv sulebro	_	10		FACW		
6	Ena atrum niarum		5		FAC	Column Totals: <u>112.2</u> (A) <u>310.7</u> (B)	
•.	Picea glauca		0.1		FACU	Prevalence Index = B/A =2.769_	
			0			Hydrophytic Vegetation Indicators:	
			0			$\checkmark$ Dominance Test is > 50%	
		_	0			✓ Prevalence Index is $\leq 3.0$	
Total Cover:							
Her	b Stratum 50% of Total Cover:			of Total Cover:	21.02	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1.	Bistorta plumosa		5	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2.	Carex bigelowii		1		FAC	$^{1}$ Indicators of hydric soil and wetland hydrology must	
3.	Rubus chamaemorus		1		FACW	be present, unless disturbed or problematic.	
4.	Pedicularis lapponica		0.1		FAC	Plot size (radius, or length x width) 10m	
5.		_	0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes	
			0			(Where applicable)	
			0			% Bare Ground	
8.			0			Total Cover of Bryophytes 80	
			0				
			0			Hydrophytic	
	Total Cove	er:	7.1			Vegetation	
	50% of Total Cover: _			of Total Cover:	1.42	Present? Yes $\bullet$ No $\bigcirc$	
Remarks:							

SOI	L

Profile Descript Depth	tion: (Describe to	the depth Matrix	needed to docu	nent the indicator or confirm the absence of indicators) <b>Redox Features</b>			cators)			
(inches)	Color (m	oist)	%	Color (moist)	%	Type $^1$	Loc 2	Texture	Remarks	
0-2								Hemic Organic		
2-4	10YR	2/1	100					Sapric Organic		
4-9	10YR	2/2	100					Hemic Organic	w thin band of 2.5Y5/3 silt at 8in	
									-	
				,						
<sup>1</sup> Type: C=Co	ncentration. D	=Depletio	n. RM=Reduc	ed Matrix <sup>2</sup> Location	n: PL=Po	re Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	indicators:			Indicators for Pr	oblemat	ic Hydric S	oils: <sup>3</sup>			
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder	
	pedon (A2)			🗌 Alaska Alpine s		-		Underlying Layer		
_	Sulfide (A4)			Alaska Redox \		-		Other (Explain in Remarks)		
	k Surface (A12	2)								
🗌 Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland l	nydrology,	
🗌 Alaska Re	dox (A14)							esent		
🗌 Alaska Gle	eyed Pores (A	15)		<sup>4</sup> Give details of c	olor chang	je in Remark	<s< td=""><td></td><td></td></s<>			
Restrictive Lay	er (if present)	:								
Type: froz	,							Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (incl								••,	· · · · ·	
Remarks:										
HYDROLO	GY									
Wetland Hyd	rology Indic	ators:						Secondary Ind	cators (two or more are required)	
Primary Indica	ators (any one	is sufficie	nt)					Water Sta	ned Leaves (B9)	
	Vater (A1)			Inundation V	isible on A	Aerial Image	ry (B7)	Drainage I	Patterns (B10)	
🖌 High Wat				Sparsely Veg	etated Co	ncave Surfa	ce (B8)	Oxidized F	hizospheres along Living Roots (C3)	
Saturation				Marl Deposit	. ,				of Reduced Iron (C4)	
Water Ma				Hydrogen Su				Salt Deposits (C5)		
_	Deposits (B2)	)		Dry-Season		( )				
Drift Dep				Other (Expla	in in Rema	arks)			ic Position (D2)	
	or Crust (B4)							Shallow A	,	
Iron Depo	( )								graphic Relief (D4)	
	oil Cracks (B6	)						L FAC-neutra	al Test (D5)	
Field Observa		Yoc (	) No 🖲	Durth (inch.						
Surface Wate				Depth (inche	:s):					
Water Table F		Yes	No O	Depth (inche	es): 7		Wetlar	nd Hydrology Preser	it? Yes 🖲 No 🔾	
Saturation Pre (includes capi		Yes(	• No O	Depth (inche	es): 4					
Describe Recor	rded Data (str	eam gaug	e, monitor we	ll, aerial photos, pre	vious insp	ection) if ava	ailable:			
Remarks:										