## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sam	pling Date: 26-Jun-12
Applicant/Owner: Alaska Energy Authority		Sampling Po	int: <b>SW12_T20_12</b>
Investigator(s): JGK	Landform (hillsi	de, terrace, hummocks etc.): Guld	ch or Gully
Local relief (concave, convex, none):	Slope: 3.5	% / 2.0 ° Elevation: 576	
Subregion : Southcentral Alaska Lat.:	62.7254199088	Long.: -148.837529969	Datum: WGS84
Soil Map Unit Name:		NWI classificati	on: PSS1B
	ar? Yes tly disturbed? problematic?	No (If no, explain in Rem Are "Normal Circumstances" prese (If needed, explain any answers in	ent? Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point lo	ocations, transects, important	features, etc.

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

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

Α			Absolute Dominant		Indicator	Dominance Test worksheet:			
Tree Stratum			Cover	Species?	Status	Number of Dominant Species			
1.	Picea glauca		7	$\checkmark$	FACU	That are OBL, FACW, or FAC: <u>3</u> (A)			
2.			0		-	Total Number of Dominant Species Across All Strata: 5 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 60.0% (A/B)			
5.			0						
	Total (		7			Prevalence Index worksheet: Total % Cover of: Multiply by:			
San	ling/Shrub Stratum 50% of Total Cover	: 3.5	20%	of Total Cover:	1.4				
	Vaccinium uliginosum		20		FAC				
	Empetrum nigrum				FAC	FAC Species $40$ x 3 = $120$			
	Salix pulchra		35		FACW	FACU Species $12 \times 4 = 48$			
	Salix reticulata		15		FAC	UPL Species x 5 =			
5.						Column Totals: <u>87</u> (A) <u>238</u> (B)			
6.			0			Prevalence Index = B/A = 2.736			
7.			0						
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
	Total		75			Morphological Adaptations <sup>1</sup> (Provide supporting data in			
Her	<b>b Stratum</b> 50% of Total Cove	r: <u>37.5</u>	5 20%		15	Remarks or on a separate sheet)			
1.	Cornus canadensis		5	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.			0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.			0			be present, unless disturbed or problematic.			
			0			Plot size (radius, or length x width) <u>10m</u>			
			0						
			0			% Cover of Wetland Bryophytes <u>15</u> (Where applicable)			
			0			% Bare Ground _3			
			0			Total Cover of Bryophytes 35			
			0						
			0			Hydrophytic			
Total Cover: 5						Vegetation			
	50% of Total Cover	:2.5	20%	of Total Cover:	1	Present? Yes $\bullet$ No $\bigcirc$			
Rem	narks: Area has channels of flowing water throu tr calamagrostis rubarc vacvit	gh willow	S						

SOIL

	Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)				ators)					
Depth — (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-7							Fibric Organics			
7-11							Hemic Organics			
	,			-						
<sup>1</sup> Type: C=Concer	ntration. D=Depleti	on. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Indi	cators:		Indicators for Pr	oblematio	: Hydric So	oils: <sup>3</sup>				
Histosol or His	stel (A1)		Alaska Color C	hange (TA4	4 +)		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epipedo	on (A2)		Alaska Alpine s	wales (TAS	5)	_	Underlying Layer			
Hydrogen Sul	fide (A4)		Alaska Redox \	Vith 2.5Y F	lue		Other (Explain in Remark	s)		
Thick Dark Su	rface (A12)		3							
Alaska Gleyed	(A13)		One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Redox	(A14)				•					
Alaska Gleyed	Pores (A15)		<sup>4</sup> Give details of c	olor change	e in Remark	s				
Restrictive Layer (i	f present):									
Type:							Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inches)	:									
HYDROLOG	(									
Wetland Hydrold							Secondary Indi	cators (two or more are required)		
Primary Indicators	s (any one is suffici	ent)					Water Stai	ned Leaves (B9)		
Surface Wate	er (A1)		Inundation V	isible on A	erial Imager	ту (В7)	🗌 Drainage P	atterns (B10)		
🗌 High Water T	able (A2)		Sparsely Veg	etated Cor	cave Surfac	e (B8)	(B8) Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A	,		🗌 Marl Deposit	s (B15)				f Reduced Iron (C4)		
Water Marks			Hydrogen Su	lfide Odor	(C1)		Salt Depos			
Sediment De			Dry-Season		. ,			Stressed Plants (D1)		
Drift Deposits	. ,		Other (Expla	in in Rema	rks)			ic Position (D2)		
Algal Mat or (								uitard (D3)		
Iron Deposits								raphic Relief (D4)		
Surface Soil ( Field Observatio								i Test (D5)		
Surface Water Pro		○ No ●	Depth (inche	<i>ic)</i> .						
Water Table Pres		• No O		,		Wotlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Preser			Depth (inche	es): 12		wettai	ia nyarology riesen			
(includes capillary		• No O	Depth (inche	es): 13						
Describe Recorded	Data (stream gau	ge, monitor we	ell, aerial photos, pre	vious inspe	ction) if ava	ilable:				
Remarks:										
-										