## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 05-Aug-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T34_08
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): rolling	Slope: 8.7 % / 5.0 ° Elevation: 1100
Subregion : Southcentral Alaska Lat	t.: <u>62.8934865751</u> Long.: <u>-148.68008997</u> Datum: <u>WGS84</u>
Soil Map Unit Name:	NWI classification: PSS1/EM1B
	vear?       Yes       No       (If no, explain in Remarks.)         antly disturbed?       Are "Normal Circumstances" present?       Yes       No         ly problematic?       (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing s	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes $lacksquare$ No $igodot$	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	-	No () No ()	Is the Sampled Area within a Wetland?	Yes $\bullet$ No $\bigcirc$			
Pemarks: tablet data mianamed recorded as CN/12, T24, 07, No EL CN/ET data							

Remarks: tablet data misnamed, recorded as SW12\_T34\_07. No ELSWET data.

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

Abso		Absolute	Dominant	Indicator	Dominance Test worksheet:			
		% Cover		Status	Number of Dominant Species			
1.			0			That are OBL, FACW, or FAC: <u>1</u> (A)		
2.			0			Total Number of Dominant Species Across All Strata: 2 (B)		
3.								
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)		
5.			0					
0.		Total Cover:				Prevalence Index worksheet:		
	E			of Total Cover:	0	Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50%		0 20%	of Total Cover:	0	OBL Species x 1 =		
1.	Salix pulchra		75	$\checkmark$	FACW	FACW Species <u>98</u> x 2 = <u>196</u>		
2.	Online e e stavenil		·		FACU	FAC Species <u>4</u> x 3 = <u>12</u>		
3.			-			FACU Species <u>70</u> x 4 = <u>280</u>		
4.			0			UPL Species x 5 =		
5.			0			Column Totals: <u>172</u> (A) <u>488</u> (B)		
						Prevalence Index = B/A =		
						Hydrophytic Vegetation Indicators:		
						Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
Total Cover: 77						Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Herb Stratum 50% of Total Cover: 38.5				% of Total Cover:	15.4	Remarks or on a separate sheet)		
1.	Gymnocarpium dryopteris		50	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Equisetum pratense		15		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Sanguisorha canadensis		7		FACW	be present, unless disturbed or problematic.		
4.	Chamarian anguatifalium		2		FACU			
5.	Cornus canadensis		5		FACU	Plot size (radius, or length x width) <u>5m</u>		
6.	Oning the second in the		10		FACU	% Cover of Wetland Bryophytes (Where applicable)		
7.	Rubus chamaemorus		1		FACW	% Bare Ground 0		
8.	Sedum rosea		2		FAC	Total Cover of Bryophytes 50		
9.	Dubus salatus		n		FAC			
10.			0			Hydrophytic		
Total Cover: 95 Vegetation						Vegetation		
	50%	of Total Cover:4	7.5 20%	of Total Cover:	19	Present? Yes  No		
Remarks: trace acodel, pyrola asarifolia, polemonium sp, viola sp, geranium sp, valeriana sp, carex sp								

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 (mois	t)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-3.5		-, .						Hemic Organics	refusal at 3.5	
					-					
					-			-		
<sup>1</sup> Type: C=Cor	ncentration. D=[	Depletion. F	M=Reduced	Matrix <sup>2</sup> Location	PL=Pore	E Lining. R	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pro	blematic	Hydric S	oils: <sup>3</sup>			
Histosol or	r Histel (A1)		[	Alaska Color Ch	ange (TA4	<b>4</b>		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)		[	Alaska Alpine sv				Underlying Layer		
Hydrogen	Sulfide (A4)		[	Alaska Redox W	ith 2.5Y H	ue	$\checkmark$	Other (Explain in Remark	ട)	
Thick Dark	c Surface (A12)			-						
🗌 Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriate				nary indicator of wetland h	iydrology,	
🗌 Alaska Red	dox (A14)					•		Jent		
🗌 Alaska Gle	yed Pores (A15)			<sup>4</sup> Give details of co	lor change	e in Remar	ks			
Restrictive Laye	er (if present):									
Type:	. ( p							Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inch	nes):									
Remarks:	,									
standing water in interstices between cobbles below 3.5 inches. pit dug in microtopographic low. assume hydric soils, insufficient time for development of full histic epipedon.										
	<u></u>									
HYDROLO										
	rology Indicat								cators (two or more are required)	
	tors (any one is	sumcient)					(22)	_	ned Leaves (B9)	
Surface W	( )			Inundation Vi		-			Patterns (B10) hizospheres along Living Roots (C3)	
Saturation				Sparsely Vege		cave Surra			of Reduced Iron (C4)	
Water Ma				Marl Deposits	. ,	(C1)		Salt Depos	. ,	
	Deposits (B2)			Dry-Season W					Stressed Plants (D1)	
				Other (Explain					ic Position (D2)	
	or Crust (B4)					K3)			juitard (D3)	
Iron Depo	. ,								graphic Relief (D4)	
	oil Cracks (B6)								al Test (D5)	
Field Observa	ations:									
Surface Water	r Present?	$_{\sf Yes}$ $\bigcirc$	No 🖲	Depth (inches	s):					
Water Table P	Present?	Yes 🖲	No O	Depth (inches			Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pre								ia riyarology ricocii		
(includes capi		Yes 🖲	No 🔾	Depth (inches	5): 0					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										