## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 19-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T29_03
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Lowland
Local relief (concave, convex, none): hummocky	Slope: 1.7 % / 1.0 ° Elevation: 715
Subregion : Southcentral Alaska Lat.:	: 62.7881469086 Long.: -148.808508969 Datum: WGS84
Soil Map Unit Name:	NWI classification: PSS1B
	ear?       Yes        No        (If no, explain in Remarks.)         ntly disturbed?       Are "Normal Circumstances" present?       Yes        No          problematic?       (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area

Hydrophytic Vegetation resent? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes		Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$		
Remarks: Strong vogetation and hydrologic indicators suggest site is a wetland						

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e 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: 5 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 60.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover				Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =		
1.	Vaccinium uliginosum	35	$\checkmark$	FAC	FACW Species 23 x 2 = 46		
2.	Vaccinium vitis-idaea	1		FAC	FAC Species <u>101</u> x 3 = <u>303</u>		
3.	Spiraea stevenii	. 1		FACU	FACU Species x 4 =16		
4.	Betula nana	FO	$\checkmark$	FAC	UPL Species x 5 =		
5.	Ledum decumbens	20		FACW	Column Totals: 128 (A) 365 (B)		
6.	Empetrum nigrum	15		FAC			
7.	Salix pulchra	1		FACW	Prevalence Index = B/A = <u>2.852</u>		
8.					Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is $\leq$ 3.0		
	Total Cover	123			Morphological Adaptations <sup>1</sup> (Provide supporting data in		
				24.6	Remarks or on a separate sheet)		
1.	Chamerion angustifolium	1	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Rubus chamaemorus	2	$\checkmark$	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Cornus canadensis	2	$\checkmark$	FACU	be present, unless disturbed or problematic.		
4.		0			Plot size (radius, or length x width) <u>10m</u>		
5.		0			% Cover of Wetland Bryophytes 15		
6.		0			(Where applicable)		
7.		0			% Bare Ground		
8.		0			Total Cover of Bryophytes60		
		0			Hydrophytic		
Total Cover: 5				Vegetation			
	50% of Total Cover:	2.5 20%	of Total Cover:	1	Present? Yes $\bullet$ No $\bigcirc$		
Remarks: Trace unk grass picmar lichen 10 coll. betnan							

Profile Description		the depth ne Matrix	eded to docur	nent the indicator or con <b>Red</b>	firm the ab ox Featu		ators)	_			
(inches)	Color (mo	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3								Fibric Organics			
3-5								Sapric Organics			
5-5.5	10YR	3/1	80		2			Sandy Clay	w/20% fine gravel		
5.5-18	10YR	2/2	75					Sandy Clay	Abundant cobble/gravel 25%		
				,							
	centration D	-Depletion	PM-Peduc	ed Matrix <sup>2</sup> Location	. Pl – Por	e Lining PC	-Poot Cha	annel M-Matrix			
Hydric Soil Ir			KM-Reduct	Indicators for Pro							
-	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	. ,			Alaska Alpine swales (TA5)				Underlying Layer			
	Sulfide (A4)						$\checkmark$	Other (Explain in Remark	s)		
	Surface (A12	)									
Alaska Gle				<sup>3</sup> One indicator of I and an appropriate				mary indicator of wetland h	ydrology,		
🗌 Alaska Red	ox (A14)							esent			
Alaska Gley	yed Pores (A1	5)		<sup>4</sup> Give details of co	lor chang	e in Remark	S				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inch	es):										
Remarks:											
HYDROLO	-										
Wetland Hydr									cators (two or more are required)		
Primary Indicat		is sufficient	.)				(87)		ned Leaves (B9)		
Surface W ✓ High Wate	. ,			Inundation Vi		-		Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3)			
Saturation				Sparsely Vege		ncave Surrac	е (ва)	_	f Reduced Iron (C4)		
Water Mar	. ,			Hydrogen Sult	• •	(C1)		Salt Depos			
	Deposits (B2)			Dry-Season W				Stunted or Stressed Plants (D1)			
	Drift Deposits (B3)     Other (Explain in Remarks)					Geomorphic Position (D2)					
Algal Mat	Algal Mat or Crust (B4)						juitard (D3)				
Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)		
Surface Sc	oil Cracks (B6)							FAC-neutra	ll Test (D5)		
Field Observa	tions:	~									
Surface Water	Present?		) No 🖲	Depth (inches	s):						
Water Table P	resent?	Yes 🖲	) No 🔿	Depth (inches	s): 8		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$		
Saturation Pre (includes capil		Yes 🖲	No O	Depth (inches	5): 7						
Describe Record pH 6.0 EC 20	led Data (stre	eam gauge,	monitor we	ll, aerial photos, prev	ious inspe	ection) if ava	ilable:				
Remarks:											
Positive for alph	na alpha D										

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