WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 22-Jun-12						
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T25_09						
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Shoreline						
Local relief (concave, convex, none): flat	Slope: 0.0 % / 0.0 ° Elevation: 616						
Subregion : Southcentral Alaska Lat.:	62.7945199089 Long.: -149.243329968 Datum: WGS84						
Soil Map Unit Name:	NWI classification: PSS1/EM1B						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation							
SUMMARY OF FINDINGS - Attach site map showing sa	impling point locations, transects, important features, etc.						

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

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

		Absolut	e Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum		% Cove		Status	Number of Dominant Species			
1.		0	·		That are OBL, FACW, or FAC: (A)			
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.		0	-					
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	0	_		Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species $22 \times 1 = 22$			
1.	Betula glandulosa	10	\checkmark	FAC	FACW Species 20 x 2 = 40			
2.		10		FAC	FAC Species 23 x 3 = 69			
3.				FACW	FACU Species 0 x 4 = 0			
	Empetrum nigrum			FAC	UPL Species $0 \times 5 = 0$			
					Column Totals: <u>65</u> (A) <u>131</u> (B)			
					Prevalence Index = B/A = 2.015			
					Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
		0			✓ Prevalence Index is \leq 3.0			
	Total Cover	27	_		Morphological Adaptations ¹ (Provide supporting data in			
			Remarks or on a separate sheet)					
1.	Rubus chamaemorus	15		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum sylvaticum	1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Eriophorum angustifolium	2	_	OBL	be present, unless disturbed or problematic.			
4.	Carex aquatilis	20	_	OBL	Plot size (radius, or length x width) <u>10m</u>			
5.		0	_		% Cover of Wetland Bryophytes 60			
6.		0			(Where applicable)			
7.		0	_		% Bare Ground			
8.		0			Total Cover of Bryophytes 80			
		0			Hydrophytic			
Total Cover: 38 Vegetation					Vegetation			
50% of Total Cover: <u>19</u> 20% of Total Cover: <u>7.6</u> Present? Yes • No \bigcirc								
Remarks: caraqu is sedge too young to identify (just emerging) tr andpol ledgro picgla picmar (both dwarf)								

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Depth Matrix Redox Features									
	olor (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-13		-					Fibric Organics		
13-15							Hemic Organics		
15-18 7.5	5YR 2.5/2	40					Silty Clay Loam	60% hemic peat	
				-					
·									
·									
	Han Daplat				- Lining D(
¹ Type: C=Concentrat					-		innel. M=Matrix		
Hydric Soil Indicato			Indicators for Pr		4	oils:	r		
Histosol or Histel (. ,		Alaska Color Ch		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
Histic Epipedon (A	,		Alaska Alpine s	•	,	Г	Other (Explain in Remarks)		
Hydrogen Sulfide	. ,		Alaska Redox V	NITH 2.51 F	lue	L		(5)	
Thick Dark Surface Alaska Gleyed (A1	()						nary indicator of wetland h	ıydrology,	
Alaska Gleyeu (A1	-		and an appropriat	te landscap	pe position r	must be pre	esent		
Alaska Redox (Al			⁴ Give details of co	olor chang	je in Remarl	KS			
-									
Restrictive Layer (if pre Type:	esenc).						Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inches):							Nyulic Soli Fresent		
Remarks:						I			
HYDROLOGY									
Wetland Hydrology								cators (two or more are required)	
Primary Indicators (an		<u>ent)</u>					_	ined Leaves (B9)	
Surface Water (A			Inundation V		-		Drainage Patterns (B10) Outdiaged Determinant along Living Poets (C2)		
High Water Table	: (AZ)		Sparsely Veg	-	ncave Surfa	ce (B8)	_	thizospheres along Living Roots (C3) of Reduced Iron (C4)	
Water Marks (B1)	١		Marl Deposits	. ,	(C1)		☐ Salt Deposits (C5)		
Sediment Deposit							Stunted or Stressed Plants (D1)		
Drift Deposits (B3	. ,	2) Dry-Season Water Table (C2)					Geomorphic Position (D2)		
Algal Mat or Crus	,				1107			quitard (D3)	
Iron Deposits (B5							_	graphic Relief (D4)	
Surface Soil Crack	ks (B6)						FAC-neutra		
Field Observations:									
Surface Water Presen		O No 🖲	Depth (inche	es):					
Water Table Present?	Yes	O No 🖲	Depth (inche	es):		Wetlar	nd Hydrology Presen	it? Yes 🖲 No 🔾	
Saturation Present? (includes capillary frim	nge) Yes	• No ()	Depth (inche	es): 1					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Pomorko:									
Remarks:	soliod as no wa	tor table or ch:	allow restrictive laver	r obcorved					
Saturation (A3) not applied as no water table or shallow restrictive layer observed									