WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 11-Jul-13						
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T139_09						
Investigator(s): WAD, BAB	Landform (hillside, terrace, hummocks etc.): drainage						
Local relief (concave, convex, none): convex	Slope: 8.7 % / 5.0 ° Elevation: 411						
Subregion : Southcentral Alaska Lat.:	62.817417979 Long.: -149.622571707 Datum: WGS84						
Soil Map Unit Name:	NWI classification: PSS1E						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , soil , or Hydrology significantly disturbed? Are Vegetation , soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sa	mpling 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 🖲 No 🔿					
Pomarko: flooded during to fact up deminated by mynice									

Remarks: flooded drainage feature dominated by myrica.

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

		Absolute	bsolute Dominant II		Dominance Test worksheet:			
		% Cover		Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.			0					
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: <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	f Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =100		
1.	Myrica gale		75	\checkmark	OBL	FACW Species <u>10</u> x 2 = <u>20</u>		
2.						FAC Species 0 x 3 = 0		
3.						FACU Species $0 \times 4 = 0$		
4.			0			UPL Species $0 \times 5 = 0$		
5.			0			Column Totals: 110 (A) 120 (B)		
			0					
						Prevalence Index = B/A = <u>1.091</u>		
						Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is \leq 3.0		
		Total Cover:	75		Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 37.5			37.5 20%	% of Total Cover:	15	Remarks or on a separate sheet)		
1.	Equisetum fluviatile		10	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex disperma		10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex aquatilis		10	\checkmark	OBL	be present, unless disturbed or problematic.		
4.	Potamogeton zosteriformis		5		OBL	Plot size (radius, or length x width) 10m		
5.			0			% Cover of Wetland Bryophytes		
6.			0			(Where applicable)		
7.			0			% Bare Ground		
8.			0			Total Cover of Bryophytes		
9.			0					
			0			Hydrophytic		
		Total Cover:	35			Vegetation		
	50% of	f Total Cover: <u>1</u>	7.5 20%	of Total Cover:	7	Present? Yes \bullet No \bigcirc		
Remarks:								

Profile Descript	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features											
Depth (inches)	Color (mois		%	Calar (m)		%	Type ¹	Loc 2	Texture	R	emarks	
0-9		-	100	Color (mo	JISC)	-70	Туре	LUC	Fibric Organics			
9-12			100						Hemic Organics			
			100									
							. <u> </u>					
¹ Type: C=Co	ncentration. D=[Depletion. R	M=Reduce	ed Matrix	² Location	: PL=Pore	Linina. R(C=Root Cha	nnel. M=Matrix	=		
Hydric Soil I							Hydric S					
				_		ange (TA4	4	Ciii3.	Alacka Cloved Withou	it Hue 5V or Pedder		
	r Histel (A1) Dedon (A2)					wales (TA5	,	L	Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	Sulfide (A4)					/ith 2.5Y H	-		Other (Explain in Remarks)			
	sunde (A4)											
Alaska Gle	()			³ One in	dicator of	hydrophyti	c vegetatio	on, one prin	nary indicator of wetla	nd hydrology,		
Alaska Re				and an a	appropriate	e landscap	e position	must be pre	esent			
	eyed Pores (A15)			4 Give de	etails of co	lor change	in Remarl	ks				
Restrictive Lay												
Type:									Hydric Soil Pres	ent? Yes 🖲	No O	
Depth (incl	nes):											
Remarks:												
no restrictive la	over observed											
no rescrictive ic												
HYDROLO	GY											
	rology Indicat	ors:							Secondary	Indicators (two or mo	re are required)	
-	itors (any one is									Stained Leaves (B9)		
Surface V	/ater (A1)			🗌 Inu	ndation Vi	sible on Ae	erial Image	ery (B7)	🗹 Draina	ge Patterns (B10)		
✓ Surface Water (A1) Inundation Visible on Aerial Imagery (B7) ✓ High Water Table (A2) Sparsely Vegetated Concave Surface (B8)								Oxidized Rhizospheres along Living Roots (C3)				
✓ Saturation (A3)								Presen	Presence of Reduced Iron (C4)			
Water Marks (B1)								Salt Deposits (C5) Stunted or Stressed Plants (D1)				
Sediment Deposits (B2)												
Drift Dep	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)											
Algal Mat	Algal Mat or Crust (B4) Shallow Aquitard (D3)											
·	Iron Deposits (B5))			
Surface S	oil Cracks (B6)								✓ FAC-ne	eutral Test (D5)		
Field Observa												
Surface Wate	r Present?	Yes 🖲	_	Dep	oth (inches	s): 1				~		
Water Table F	Present?	Yes 🖲	No 🔾	Dep	oth (inches	s): 0		Wetla	nd Hydrology Pre	sent? Yes 🖲	No 🔿	
Saturation Pre (includes capi		Yes 🖲	No \bigcirc	Dep	oth (inches	s): 0						
Describe Recor	ded Data (strea	m gauge, m	nonitor wel	l, aerial ph	otos, prev	ious inspe	ction) if av	ailable:				
			-									
Remarks:												
Water table at	the surface. Flor	wing to the	west.									