WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling I	Date: 30-Jul-13			
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T172_09			
Investigator(s): WAD, RWM	Landform (hills	Landform (hillside, terrace, hummocks etc.): Mound				
Local relief (concave, convex, none): convex	Slope: 1.7	% / 1.0 ° Elevation: 880				
Subregion : Interior Alaska Mountains	Lat.: 63.280996919	Long.:148.256114483	Datum: WGS84			
Soil Map Unit Name: NWI classification: Upland						
	of year? Yes ificantly disturbed? irally problematic?	No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Rem	Yes 🔍 No 🔿			
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, important featu	ıres, etc.			
Hydrophytic Vegetation Present? Yes • No						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{igstar}$
Remarks: peat mounds bordering wetla	ands. dry.		

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

Absolute		Dominant Indicator		Dominance Test worksheet:				
Tree Stratum			Cover	Species?	Status	Number of Dominant Species		
1.			-	0			That are OBL, FACW, or FAC: (A)	
2.				0			Total Number of Dominant	
3.				0			Species Across All Strata: (B)	
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
 5.								
5.		T () () ()		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			30	\checkmark	FAC	FACW Species <u>50</u> x 2 = <u>100</u>	
2.	Detula none			25	\checkmark	FAC	FAC Species <u>57</u> x 3 = <u>171</u>	
3.	Ledum decumbens			45	\checkmark	FACW	FACU Species x 4 =	
4.	Vaccinium vitis-idaea			2		FAC	UPL Species x 5 =	
5.				0			Column Totals: <u>107</u> (A) <u>271</u> (B)	
6.				0				
				0			Prevalence Index = B/A =	
				0			Hydrophytic Vegetation Indicators:	
				0			✓ Dominance Test is > 50%	
				0			✓ Prevalence Index is ≤3.0	
		Total Cover		102			\square Morphological Adaptations ¹ (Provide supporting data in	
Herb Stratum 50% of Total Cover: 51 20% of T		of Total Cover:	20.4	Remarks or on a separate sheet)				
1.	Rubus chamaemorus			5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.				0			¹ Indicators of hydric soil and wetland hydrology must	
				0			be present, unless disturbed or problematic.	
				0				
				0			Plot size (radius, or length x width) <u>10m</u>	
				0			% Cover of Wetland Bryophytes (Where applicable)	
				0			% Bare Ground	
				0			Total Cover of Bryophytes	
				0				
				0			Hydrophytic	
10 0		5			Vegetation			
		50% of Total Cover:	-	<u> </u>	of Total Cover:	1	Present? Yes No	
Dom	arks:			-			1	
Reiff	IGI N3.							

Profile Description: (Describe to the depth needed to do		nfirm the absence o lox Features	f indicators)		
Depth	-		<u>e¹ _Loc</u> ²	Texture	Remarks
(inches) Color (moist) % 0-14 100	Color (moist)	% Тур	<u>Loc</u>	Fibric Organics	
	·	·			
¹ Type: C=Concentration. D=Depletion. RM=Red			-	annel. M=Matrix	
Hydric Soil Indicators:	Indicators for Pro	oblematic Hyd	ric Soils: ³		
Histosol or Histel (A1)	Alaska Color Ch	ange (TA4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)	Alaska Alpine sv	wales (TA5)	_	Underlying Layer	
Hydrogen Sulfide (A4)	Alaska Redox W	/ith 2.5Y Hue	L	Other (Explain in Remark	ය)
Thick Dark Surface (A12)	30				
Alaska Gleyed (A13)	One indicator of i and an appropriate			mary indicator of wetland h resent	ydrology,
Alaska Redox (A14)					
Alaska Gleyed Pores (A15)	⁴ Give details of co	lor change in Re	emarks		
Restrictive Layer (if present):					
Туре:				Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inches):				-	
Remarks:			I	<u></u>	
enough peat for a histosol but not saturated					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indi	cators (two or more are required)
Primary Indicators (any one is sufficient)					ned Leaves (B9)
Surface Water (A1)	Inundation Vi	isible on Aerial Ir	magery (B7)		Patterns (B10)
High Water Table (A2)	Surface (B8)		hizospheres along Living Roots (C3)		
\square Saturation (A3)	Marl Deposits				of Reduced Iron (C4)
Water Marks (B1)	Salt Depos	()			
Sediment Deposits (B2)		Stressed Plants (D1)			
Drift Deposits (B3)	Dry-Season W		ic Position (D2)		
Algal Mat or Crust (B4)	(<u></u>		quitard (D3)		
☐ Iron Deposits (B5)					graphic Relief (D4)
Surface Soil Cracks (B6)				FAC-neutra	
Field Observations:					
Surface Water Present? Yes O No	Depth (inches	s):			
Water Table Present? Yes O No G			Wetla	nd Hydrology Presen	it? Yes 🔿 No 🖲
Saturation Present? Yes No	Dopar (menee				
(includes capillary fringe)	Deput (increa	د).			

Remarks:

only one secondary hydrology indicator observed