WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 21-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T32_07
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky	Slope: % / 2.4 ° Elevation: 823
Subregion : Interior Alaska Mountains Lat.:	62.7622881105 Long.: -148.337185761 Datum: NAD83
Soil Map Unit Name:	NWI classification: PSS1B
	ar? Yes No (If no, explain in Remarks.) ttly disturbed? Are "Normal Circumstances" present? Yes No 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?	Yes 🖲	No 🔾		
Hydric Soil Present?	Yes 🖲	Νο Ο	Is the Sampled Area	Yes $ullet$ No $igcap$
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	fes ⊕ No ⊖
Remarks:				

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

		۸hc	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum			Cover	Species?	Status	Number of Dominant Species
1.	Picea mariana	-	10		FACW	That are OBL, FACW, or FAC: <u>5</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:100.0% (A/B)
5.			0			Prevalence Index worksheet:
	Total Cover		10			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	5	20%	of Total Cover:	2	OBL Species $0 \times 1 = 0$
1	Betula glandulosa		5		FAC	FACW Species $50 \times 2 = 100$
2.			30		FACW	FAC Species 68 x 3 = 204
	Salix alauca		1		FAC	FACU Species $0 x 4 = 0$
4			1		FAC	UPL Species $0 \times 5 = 0$
5.	O-liv ratioulate	-	15		FAC	
6.			20		FAC	Column Totals: <u>118</u> (A) <u>304</u> (B)
7.	Vacainium vitia idaga		1		FAC	Prevalence Index = B/A =2.576_
	Empetrum nigrum		5		FAC	
	Rhododendron groenlandicum		5		FAC	✓ Dominance Test is > 50%
10.			0			\checkmark Prevalence Index is ≤ 3.0
	Total Cover		83			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:			of Total Cover:	16.6	Remarks or on a separate sheet)
1.	Equisetum pratense		10	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex bigelowii	-	15	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.			0			be present, unless disturbed or problematic.
			0			
			0			Plot size (radius, or length x width) <u>10m</u>
			0			% Cover of Wetland Bryophytes 5 (Where applicable)
			0			% Bare Ground
			0			Total Cover of Bryophytes 60
			0			
		_	0			Hydrophytic
	Total Cover: 25					Vegetation
	50% of Total Cover:	12.5	20%	of Total Cover:	5	Present? Yes No
Rem	arks: tr polbis unk forb (collected) rubcha picgla					

SOIL

Depth I							-			
(inches) Color (mo	ist)	%	Color (moist)	%	Type 1	2	Тех	ture	I	Remarks
0-12							Fibric Organi	cs	from 8in dwn larg	je cobbles obs >4in
12-15					- <u></u>		Hemic Organ	ics		
									<u>1</u>	
									-	
							-			
Type: C=Concentration. D=	Depletion. F	M=Reduced	d Matrix ² Location	PL=Pore	e Lining. RC	=Root Cha	annel. M=Mat	rix		
ydric Soil Indicators:			Indicators for Pro	blematio	: Hydric So	oils: ³				
Histosol or Histel (A1)			Alaska Color Ch	ange (TA4	4) 4)		Alaska Gley	ed Without H	ue 5Y or Redder	
Histic Epipedon (A2)			Alaska Alpine sv	vales (TA5	5)		Underlying	Layer		
Hydrogen Sulfide (A4)			Alaska Redox W	'ith 2.5Y F	lue		Other (Expl	ain in Remarl	(s)	
Thick Dark Surface (A12)	1		³ One indicator of I	wdronbyt	ic vegetatio	n one prin	nany indicator	of wotland h	wdrology	
Alaska Gleyed (A13)			and an appropriate						iyal OlUgy,	
Alaska Redox (A14)	-		⁴ Give details of co	lor change	e in Remark	S				
Alaska Gleyed Pores (A1)									
estrictive Layer (if present):							Hydric Se	oil Present	? Yes 🖲	No 🔿
							inyunc 30		: 153 🙂	\sim
Type: Depth (inches): emarks:										
Depth (inches): emarks:										
Depth (inches): emarks: YDROLOGY										
Depth (inches): emarks: YDROLOGY /etland Hydrology Indica								_		ore are required)
Depth (inches): emarks: YDROLOGY Yetland Hydrology Indica rimary Indicators (any one i				sible on A				Water Stai	ned Leaves (B9)	ore are required)
Depth (inches): emarks: YDROLOGY Yetland Hydrology Indica rimary Indicators (any one i Surface Water (A1)			Inundation Vis		-			Water Stai	ned Leaves (B9) Patterns (B10)	
Depth (inches): emarks: YDROLOGY /etland Hydrology Indica rimary Indicators (any one i Surface Water (A1) High Water Table (A2)			Sparsely Vege	tated Con	-			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres alon	g Living Roots (C
Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat rimary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3)			Sparsely Vege Marl Deposits	tated Con (B15)	cave Surfac			Water Stai Drainage F Oxidized R Presence c	ned Leaves (B9) Patterns (B10) hizospheres alon of Reduced Iron (g Living Roots (C
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Depth (inches): emarks: YDROLOGY /etland Hydrology Indica rimary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3)			Sparsely Vege Marl Deposits Hydrogen Sult Dry-Season W	tated Con (B15) fide Odor /ater Table	(C1) e (C2)			Water Stai Drainage F Oxidized R Presence c Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres alon of Reduced Iron (its (C5) Stressed Plants	g Living Roots (C (C4)
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