WETLAND DETERMINATION DATA FORM - Alaska Region

.0,000	/Site: Susitna-Watana Hydroelectric Project	ct	Denali Bo	orough Sampling Date: 31-Jul-13					
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T158_04						
	gator(s): CTS, AMD	side, terrac	ee, hummocks etc.): Flat						
-	elief (concave, convex, none): concave		Slope: 3.0	% / 1.7					
	jion : Interior Alaska Mountains			3.365951777		Long.: -148.757721186 Datum: WGS84			
_				03.300901777					
	p Unit Name:				<u> </u>	NWI classification: PSS1B			
Are V	matic/hydrologic conditions on the site typical fregetation , Soil , or Hydrology regetation , Soil , or Hydrology MARY OF FINDINGS - Attach site ma	☐ signi ☐ natui	ficantly rally pro	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No			
	Hydrophytic Vegetation Present? Yes	pled Area							
	Hydric Soil Present? Yes Yes	No O		within a Wetland? Yes No					
	Wetland Hydrology Present? Yes	No O		VV 1	umi a vv	etiana:			
	arks: ETATION -Use scientific names of pla					Dominance Test worksheet:			
Tree	e Stratum		solute Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
	Picea mariana		20	<u>✓</u>	FACW	That are OBL, FACW, or FAC:5 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.			0						
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			0			Daniel and Tarden markets at			
	Tot	al Cover:	20			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Co	ver: <u>10</u>	20% (of Total Cover:	4	OBL Species 0.1 x 1 = 0.1			
-						FACW Species 50.2 x 2 = 100.4			
	Betula nana		30		FAC	FAC Species 61.3 x 3 = 183.9			
2. 3.	Spiraea stevenii		1	<u> </u>	FACU	FACU Species 1.1 x 4 = 4.400			
4.	Vaccinium uliginosum Salix pulchra		15 10		FACW	UPL Species 0 x 5 = 0			
5.	Ledum decumbens		5		FACW				
6.	Vaccinium vitis-idaea		1		FAC	Column Totals: <u>112.7</u> (A) <u>288.8</u> (B)			
	Salix barclayi		0.1		FAC	Prevalence Index = B/A = 2.563			
	Arctostaphylos rubra		0.1		FAC	Hydrophytic Vegetation Indicators:			
	Vaccinium oxycoccos		0.1		OBL	Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
			62.3 20%	of Total Cover	: 12.46	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
_	Carex bigelowii		15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Petasites frigidus		15	<u></u>	FACW	¹ Indicators of hydric soil and wetland hydrology must			
3.	Rubus chamaemorus		0.1		FACW	be present, unless disturbed or problematic.			
4.	Tephroseris atropurpurea		0.1		FAC	Plot size (radius or length y width)			
5.	Pedicularis labradorica		0.1		FACW	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes			
6.	Equisetum scirpoides		0.1		FACU	(Where applicable)			
7.						% Bare Ground			
8.						Total Cover of Bryophytes 60			
9.									
10.						Hydrophytic			
	Tot 50% of Total Co	_	30.4 _ 20% (of Total Cover:	6.08	Vegetation Present? Yes No			
	22,22, 300, 00	10.2			0.00	T. Control of the con			

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SOIL Sampling Point: SW13_T158_04

Profile Descripti		he depth ne 1atrix	eded to docum	nent the indicator or co	onfirm the abs		cators)		
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12			100					Fibric Organics	
12-18	5GY	4/1	100		-			Sandy Clay	
					-				
					- —				
					- —				
					-				
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
Histosol or	r Histel (A1)			Alaska Color Cl	nange (TA	4) ⁴	✓	Alaska Gleyed Without Hu	ue 5Y or Redder
✓ Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA!	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	Nith 2.5Y F	Hue		Other (Explain in Remark	s)
☐ Thick Darl	k Surface (A12)			30 1 11 11 11					
✓ Alaska Gle	eyed (A13)			One indicator of and an appropriat				nary indicator of wetland hesent	ydrology,
Alaska Red	dox (A14)					•	•	23CHC	
	eyed Pores (A15)		⁴ Give details of co	olor change	e in Remark	(S		
Restrictive Laye									
Type: Acti	•							Hydric Soil Present?	? Yes ● No O
Depth (inch Remarks:	nes): 10								
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						Secondary Indic	cators (two or more are required)
Primary Indica	ators (any one is	sufficient	:)					Water Stair	ned Leaves (B9)
Surface W	Vater (A1)			☐ Inundation V	/isible on A	erial Image	ery (B7)	Drainage P	atterns (B10)
✓ High Wate	✓ High Water Table (A2)				jetated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)
✓ Saturation	. ,			Marl Deposits	s (B15)				f Reduced Iron (C4)
Water Ma	Water Marks (B1)				ılfide Odor	(C1)		Salt Deposi	its (C5)
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)
☐ Drift Depo				Other (Explai	in in Rema	rks)		✓ Geomorphi	, ,
	or Crust (B4)							✓ Shallow Aq	
Iron Depo	. ,							_	raphic Relief (D4)
☐ Surface S	ioil Cracks (B6)							✓ FAC-neutra	l Test (D5)
Field Observa									
Surface Water	r Present?		No 💿	Depth (inche	es):				
Water Table F	Present?	Yes 🕑	No 🔾	Depth (inche	es): 7		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pre (includes capi		Yes	No O	Depth (inche	es): 5				
Describe Recor	rded Data (strea	ım gauge,	monitor well	l, aerial photos, pre	vious inspe	ection) if ava	ailable:		
Remarks:									

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