WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 05-Jul-13												
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T105_05						
Invest	igator(s): JER	ee, hummocks etc.): Outwash plain										
Local	relief (concave, convex, none): convex			Slope: 3.5		° Elevation: 752						
	gion : Interior Alaska Mountains		lat: 6	· 62.761584997								
				02.701304331								
	ap Unit Name:			. V	■ N= ○	NWI classification: PSS1/4B						
	matic/hydrologic conditions on the site typical f /egetation \Box , Soil \Box , or Hydrology		•	? Yes disturbed?	No O Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○						
	/egetation ☐ , Soil ☐ , or Hydrology		•	oblematic?		eded, explain any answers in Remarks.)						
	,				·							
SUM	MARY OF FINDINGS - Attach site ma	ap showi	ng sam	pling point	locations	s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No No In the Sampled Area												
	Hydric Soil Present? Yes ●	No \bigcirc		Is the Sampled Area within a Wetland? Yes ● No ○								
	Wetland Hydrology Present? Yes	No 🔾		Wi	thin a W	etland? Yes S No C						
Ren	narks: landform disected swale/outwash, mixe	nd poodlole	af wood!	and fowbwc								
1 (0)	name. Ianuform disected swale/outwash, mixe	d ricedicie	ai woodi	ana mwbws								
VEGI	ETATION -Use scientific names of pla	ants. List	all spe	cies in the	plot.							
			bsolute	Dominant	Indicator	Dominance Test worksheet:						
Tre	ee Stratum		∕₀ Cover	Species?	Status	Number of Dominant Species						
1.	Picea glauca		8	✓	FACU	That are OBL, FACW, or FAC: 7 (A)						
2.	Picea mariana		3	✓	FACW	Total Number of Dominant Species Across All Strata: 8 (B)						
3.			0			Percent of dominant Species						
4.			0			That Are OBL, FACW, or FAC: 87.5% (A/B)						
5.			0			Prevalence Index worksheet:						
	Tota	al Cover:			Total % Cover of: Multiply by:							
Sap	pling/Shrub Stratum 50% of Total Co	ver:	20%	of Total Cover	2.2	OBL Species0 x 1 =0						
1.	Picea mariana		8		FACW	FACW Species 25 x 2 = 50						
2.	Picea glauca		2		FACU	FAC Species <u>135</u> x 3 = <u>405</u>						
3.	Betula nana		35	✓	FAC	FACU Species <u>10</u> x 4 = <u>40</u>						
4.	Ledum groenlandicum		15		FAC	UPL Species <u>0</u> x 5 = <u>0</u>						
5.	Vaccinium uliginosum		35	✓	FAC	Column Totals:170 (A)495 (B)						
6.	Empetrum nigrum		_20_	✓	FAC							
7.	Vaccinium vitis-idaea		20	✓	FAC	Prevalence Index = B/A = 2.912						
8.	Ledum decumbens		5		FACW	Hydrophytic Vegetation Indicators:						
9.	Salix pulchra		2		FACW	✓ Dominance Test is > 50%						
10.	Alnus viridis ssp. crispa		5		FAC	Prevalence Index is ≤3.0						
		al Cover:	147	of Total Cover	. 20.4	Morphological Adaptations (Provide supporting data in						
-	is structure	, vei/3		or rotal cover		Remarks or on a separate sheet)						
1.	Petasites frigidus		2		FACW	Problematic Hydrophytic Vegetation (Explain)						
2.	Equisetum sylvaticum				FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
3.	Calamagrostis canadensis Rubus chamaemorus				FACW							
4. 5.			0		- ACVV	Plot size (radius, or length x width) <u>10m</u>						
			0			% Cover of Wetland Bryophytes (Where applicable)						
			0			(where applicable) % Bare Ground 1						
						7 Total Cover of Bryophytes 85						
			0			Total Cover of Dryophlytes 85						
			0			Hydronhytic						
'0.		al Cover:	12	_		Hydrophytic Vegetation						
1				of Total Cover:	2.4	Present? Yes • No •						
	50% of Total Co	vei. <u>0</u>		o o.a. oo.a.	2.7							

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SOIL Sampling Point: SW13_T105_05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of										
Depth		atrix	— —		dox Featu					
(inches)	Color (mois			Color (moist)	_%_	Type ¹	_Loc_2	Texture	Remarks	
0-9			100					Fibric Organics		
9-10			100					Hemic Organcs	frozen	
			— —							
		———								
								-		
¹Type: C=Cond	centration. D=D	epletion. R	kM=Reduced	d Matrix ² Location	n: PL=Por	e Lining. R(C=Root Cha	nnel. M=Matrix		
Hydric Soil In	dicators:			Indicators for Pr	roblemati	c Hydric S	oils:			
Histosol or			ſ	Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epipe	` ,		ſ	☐ Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen S			Γ	Alaska Redox With 2.5Y Hue Other (Explain in Remarks)						
	Surface (A12)									
Alaska Gley	, ,							nary indicator of wetland h	ıydrology,	
Alaska Red				and an appropria	te landscap	e position i	must be pre	esent		
	ed Pores (A15)			⁴ Give details of o	olor chang	e in Remarl	ks			
Restrictive Layer	r (if present):	-								
Type: ice ri								Hydric Soil Present	? Yes • No ·	
Depth (inche								•		
HYDROLOG	 3Y									
Wetland Hydro		ors:						Secondary Indi	cators (two or more are required)	
Primary Indicate									ned Leaves (B9)	
Surface Wa	ater (A1)			☐ Inundation V	√isible on A	erial Image	ery (B7)	☐ Drainage F	Patterns (B10)	
High Water	r Table (A2)			Sparsely Veg		_			hizospheres along Living Roots (C3)	
✓ Saturation	(A3)			Marl Deposit	-		• •	Presence of	of Reduced Iron (C4)	
☐ Water Marl	ks (B1)			Hydrogen Su	ulfide Odor	(C1)		☐ Salt Depos	its (C5)	
Sediment [Deposits (B2)			Dry-Season	Water Tabl	le (C2)		Stunted or	Stressed Plants (D1)	
Drift Depos	sits (B3)			Other (Expla	in in Rema	ırks)			ic Position (D2)	
Algal Mat o	or Crust (B4)							✓ Shallow Ac	quitard (D3)	
Iron Depos	sits (B5)							Microtopog	graphic Relief (D4)	
Surface So	il Cracks (B6)							✓ FAC-neutra	al Test (D5)	
Field Observat	tions:									
Surface Water	Present?	Yes 🔾		Depth (inche	es):					
Water Table Pr	resent?	Yes 💿	No \bigcirc	Depth (inche	es): 9		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾	
Saturation Pres		Yes •	No O	, ,	•					
(includes capilla				Depth (inche						
Describe Record	ed Data (strear	n gauge, m	ionitor well,	aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										
Remarks.										

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