WETLAND DETERMINATION DATA FORM - Alaska Region

^o rojec ¹	t/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Jun-12						
Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T27_07												
	gator(s): JGK	e, hummocks etc.): Flat										
Localı	relief (concave, convex, none): hummocky	Slope: 3.5		° Elevation: 800								
	gion : Interior Alaska Mountains	l a		2.857539908	_	Long.: -148.65236997 Datum: WGS84						
	ap Unit Name:	Lu										
			Vas	No ○	NWI classification: PSS1/EM1E							
Are V	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , or Hydrology , Soil , or Hydrology , or Hydr	signific natura owing	antly lly pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.						
S S Is the Sampled Area												
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ● No ○									
	Wetland Hydrology Present? Yes No											
/EGE	ETATION -Use scientific names of plants.	List all	-	cies in the		Dominance Test worksheet:						
	e Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)						
1.			0			Total Number of Dominant						
2.			0			Species Across All Strata:3 (B)						
3.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
4. 5.			0			That Are OBL, FACW, or FAC:						
Э.	Total Cov		0			Prevalence Index worksheet:						
C			0 20% of Total Cover:		0	Total % Cover of: Multiply by:						
Sap	Iling/Shrub Stratum 50% of Total Cover:	0	20% (0	OBL Species <u>45</u> x 1 = <u>45</u>						
1.	Betula nana		20	✓	FAC	FACW Species 20 x 2 = 40						
	Vaccinium uliginosum		35	~	FAC	FACUS pecies 70 x 3 = 210						
	Empetrum nigrum		15		FAC	FACU Species 0 x 4 = 0						
4.	Andromeda polifolia (IAM)		5		OBL	UPL Species <u>0</u> x 5 = <u>0</u>						
5.	Ledum decumbens		5		FACW	Column Totals: <u>135</u> (A) <u>295</u> (B)						
6.			0			Prevalence Index = B/A = 2.185						
7.			0									
8. 9.			0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%						
			0			✓ Prevalence Index is ≤3.0						
	Total Cov b Stratum 50% of Total Cover:		30	of Total Cover	: 16	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
-	Corox conillaria		5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)						
	Equisetum pratense		5		FACW	Indicators of hydric soil and wetland hydrology must						
3.	Carex aquatilis		40	<u></u>	OBL	be present, unless disturbed or problematic.						
4.	Rubus chamaemorus		5		FACW	District Code on Locality (1912)						
			0			Plot size (radius, or length x width) 10m						
			0			% Cover of Wetland Bryophytes 40 (Where applicable)						
7.		_	0			% Bare Ground						
8.			0			Total Cover of Bryophytes						
			0									
10.			0			Hydrophytic						
	Total Cov		5 <u>5</u>	of Total Cover	11	Vegetation Present? Yes ● No ○						
	50% of Total Cover:	77 5										

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SOIL Sampling Point: SW12_T27_07

		ne depth need	ed to documen	it the indicator or co	onfirm the abs		cators)				
Depth (inches)	Color (mois	st)	% C	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-14			~			- 7 -		Fibric Organics			
14-18								Hemic Organics			
			— —								
-											
¹Type: C=Cor	ncentration. D=I	Depletion. R		Matrix ² Locatio				nnel. M=Matrix			
Hydric Soil I	ndicators:		Ir	ndicators for P	roblematic	: Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color C	Jhange (TA₄	1)4		์ Alaska Gleyed Without Hu	ue 5Y or Redder		
✓ Histic Epip	` '			Alaska Alpine	swales (TA5	5)	_	Underlying Layer			
	Sulfide (A4)			Alaska Redox	With 2.5Y F	łue		Other (Explain in Remark	5)		
Thick Dark	k Surface (A12)		_								
Alaska Gle				³ One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Rec					·	•	·	esent			
	eyed Pores (A15))	4	⁴ Give details of o	olor change	e in Remark	KS				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	? Yes ● No O		
Depth (inch	nes):										
HYDROLO											
	rology Indicat								cators (two or more are required)		
	tors (any one is	sufficient)							ned Leaves (B9)		
Surface W	. ,			Inundation \		-			atterns (B10)		
✓ High Wate	. ,			Sparsely Veg	-	icave Surfac	ce (B8)		nizospheres along Living Roots (C3)		
✓ Saturation	` '			Marl Deposit	` '				f Reduced Iron (C4)		
Water Mai				☐ Hydrogen St				Salt Deposi			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
☐ Drift Depo	osits (B3) or Crust (B4)			U Other (Expla	in in Remar	rks)			c Position (D2)		
☐ Algai Mat	. ,							Shallow Aq			
	oil Cracks (B6)							✓ FAC-neutra	raphic Relief (D4)		
Field Observa							1	▼ FAC-IIEuua	Test (DS)		
Surface Water		Yes 〇	No (Depth (inch	00):						
		Yes •			•		*** at la	1 Harden Drocon	W (A) N- (
Water Table P				Depth (inch	es): 1		Wetiai	nd Hydrology Present	t? Yes • No O		
Saturation Pre (includes capil		Yes •	No O	Depth (inch	es): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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