WETLAND DETERMINATION DATA FORM - Alaska Region

-	t/Site: Susitna-Watana Hydroelectric Project		Bc	prough/City:	Matanusk	xa-Susitna Borough Sampling Date: 21-Jun-12			
	ant/Owner: Alaska Energy Authority			16		Sampling Point: SW12_T33_07			
	gator(s): SLI, EKJ			Landform (hillside, terrace, hummocks etc.): Flat					
ocal ı	relief (concave, convex, none): hummocky		;	Slope: 3.5 % / 2.0 ° Elevation: 708					
ubreç	gion : Interior Alaska Mountains	_ La	2.783969908	8	Long.:148.402539972				
oil Ma	ap Unit Name:				NWI classification: Upland				
Are \ Are \	matic/hydrologic conditions on the site typical for the /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map so Hydrophytic Vegetation Present? Yes N	signific	antly	disturbed? bblematic? pling point	(If nee	·			
		lo 💿		Is the Sampled Area					
	.,	lo 💿		wi	thin a W	'etland? Yes ○ No •			
	narks: partially barren frostboil in plot - 2mx2m w								
		Abso	lute	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)			
1.			0			That are OBL, FACW, or FAC:			
2.			0			Species Across All Strata: 6 (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 Co	over:	0			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0	20% (of Total Cover:	0	OBL Species0 x 1 =0			
1.	Picea glauca		5		FACU	FACW Species 23 x 2 = 46			
2.	Betula nana		20	✓	FAC	FAC Species <u>102</u> x 3 = <u>306</u>			
3.	Empetrum nigrum		25	✓	FAC	FACU Species 5 x 4 =20			
4.	Ledum decumbens		15		FACW	UPL Species x 5 =0			
5.	Vaccinium uliginosum		20	✓	FAC	Column Totals: <u>130</u> (A) <u>372</u> (B)			
6.	Vaccinium vitis-idaea		25	✓	FAC				
7.	Salix pulchra		3		FACW	Prevalence Index = B/A = 2.862			
8.	Arctostaphylos rubra		5		FAC	Hydrophytic Vegetation Indicators:			
9.	Picea mariana		3		FACW	✓ Dominance Test is > 50%			
10.			0			Prevalence Index is ≤3.0			
Her	Total Cover: 50% of Total Cover:	_		of Total Cover	24.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Rubus chamaemorus		2	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Carex bigelowii		7	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.			0			be present, unless disturbed or problematic.			
4.			0			Plot size (radius, or length x width)			
			0			% Cover of Wetland Bryophytes			
			0			(Where applicable)			
			0			% Bare Ground			
8.			0			Total Cover of Bryophytes			
_			0						
			U	\Box		Hydrophytic			
	Total Co		9			Vegetation			

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SOIL Sampling Point: SW12_T33_07

Profile Descripti	ion: (Describe to	the depth no	eded to docu	ment the indicator or co	unfirm the al	sence of indic	ators)		10mt. 5W12_155_67		
		the depth no	eaea to aoca	ment the indicator or co	dox Feati		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3			100	Color (moise,		.,,,,		Hemic Organics			
3-5	5YR	2.5/1	100					Loam	highly oxidized w abundant FeMn concretio		
								Loamy Sand			
5-15	5Y	4+/3	90					Loanly Sanu	10% sub-angular to rounded gravels and co		
					-						
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	roblemati	c Hydric So	oils: ³				
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without Hi	ue 5Y or Redder		
	edon (A2)			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox N	With 2.5Y	Hue		Other (Explain in Remark	rs)		
	Surface (A12)									
Alaska Gle	-	,		³ One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	•	ESCIIC			
Alaska Gle	eyed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	is .				
Restrictive Laye	er (if present):										
Type:	, ,							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							,			
Remarks:											
no hydric soil ir	ndicators										
	raicato. o										
HYDROLO											
Wetland Hyd			`						cators (two or more are required)		
Primary Indica		is sufficien	:)				(22)		ned Leaves (B9)		
Surface W				☐ Inundation V		-			Patterns (B10)		
Saturation	er Table (A2)			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3) f Reduced Iron (C4)		
Water Ma				Marl Deposit	,	(C1)		Salt Depos	` '		
	Deposits (B2)			Hydrogen Su					Stressed Plants (D1)		
Drift Depo	. ,			☐ Dry-Season \					ic Position (D2)		
	or Crust (B4)			□ Other (Expla	III III Keilia	irks)			uitard (D3)		
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)	1						✓ FAC-neutra			
Field Observa		<u>'</u>									
Surface Water		Yes C	No •	Depth (inche	es):						
Water Table P			No •	, ,	•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre				Depth (inche	es):		Wetiai	na riyarology Fresen	ti les 🔾 NO 🔾		
(includes capi		Yes 🤇	No 💿	Depth (inche	es):						
Describe Recor	ded Data (stre	eam gauge.	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
		····· gg-,		,,		,					
Remarks:											

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