WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydr	oelectric Project	В	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 21-Jun-12			
Applica	nt/Owner: Alaska Energy Au	uthority				Sampling Point: SW12_T32_01			
	gator(s): JGK		Iside, terrace, hummocks etc.): Mountainslope						
Local re	elief (concave, convex, none):	hummocky			pe: 57.7 % / 30.0 ° Elevation: 1112				
Subreai	ion: Interior Alaska Mountain	-	Lat.:	<u></u> 22.7618499087 Long.: -148.301189973 Datum: <u>WGS8</u> 4					
_	p Unit Name:			02.701010000	NWI classification: PSS1/EM1B				
Are clim Are Ve	natic/hydrologic conditions on tegetation , Soil egetation , Soil	, or Hydrology	significantly naturally pr wing sam	y disturbed? roblematic? npling point	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydric Soil Present?	Yes No C)	Is	Is the Sampled Area				
	Wetland Hydrology Present?	Yes ● No C		wi	ithin a W	/etland? Yes ● No ○			
Rema									
Tree	TATION - Use scientific	names of plants. Li	st all spe	Pominant Species?	•	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.			0			Total Number of Dominant			
2.			0			Species Across All Strata: 4 (B)			
3.						Percent of dominant Species			
4.						That Are OBL, FACW, or FAC: 75.0% (A/B)			
5.						Prevalence Index worksheet:			
		Total Cover		(Total % Cover of: Multiply by:			
Sapl	ling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0			
1.	Salix reticulata		5		FAC	FACW Species 0 x 2 = 0			
	Dryas octopetala		15	✓	UPL	FAC Species 75 x 3 = 225			
	Vaccinium uliginosum			V	FAC	FACU Species 2 x 4 = 8			
	Empetrum nigrum				FAC	UPL Species <u>15</u> x 5 = <u>75</u>			
					FAC	Column Totals: <u>92</u> (A) <u>308</u> (B)			
6.			^			Prevalence Index = B/A =3.348_			
7.						Undershit Variation Indicators			
8. 9.						Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
-			0			Prevalence Index is ≤ 3.0			
	o Stratum	Total Cover 50% of Total Cover:	: 12	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
_	Diatorta alumana		2		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Caraci binalassii			✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
						be present, unless disturbed or problematic.			
						Plot size (radius, or length x width)			
						% Cover of Wetland Bryophytes 0			
						(Where applicable)			
						% Bare Ground _5			
						Total Cover of Bryophytes 40			
10						Hydrophytic Vegetation			
		50% of Total Cover:	of Total Cover:	6.4	Present? Yes • No O				
Pami	arks: traces astumb poaarc s	tollaria							
Kellik	u aces ascumb podarc s	ıcııdı id							

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SOIL Sampling Point: SW12_T32_01

		ne depth nee	ded to docume	ent the indicator or co	onfirm the ab		ators)					
Depth (inches)	Color (mois		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-8	Color (IIIol			Color (moise)		1,400		Fibric Organics				
8-10								Sapric Organics	5% silty loam			
10-14								Sapric Organics				
								Sapric Organics	75% cobble 2 -5 inches and gravel			
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³												
Histosol or	r Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder								
✓ Histic Epip	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer								
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue	Other (Explain in Remark	rs)				
Thick Dark	Surface (A12)			3.000 - 100 - 100 - 100	: h d a . a h d	: 			duala a			
Alaska Gle	eyed (A13)			and an appropria				nary indicator of wetland h esent	ydrology,			
Alaska Red	dox (A14) eyed Pores (A15))		4 Give details of c	olor change	e in Remark	s					
		<u>'</u>										
Restrictive Laye	er (ir present):							Uvdvia Cail Drogont	? Yes • No •			
Type:	nes).							Hydric Soil Present	r tes 🥯 NO 🖰			
Depth (inches): Remarks:												
soil saturated water pooling a	at 9 inches deptl	n										
HYDROLO	GY											
-	rology Indicat	ors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one is	sufficient)						Water Stained Leaves (B9)				
Surface W	/ater (A1)			☐ Inundation \	isible on A	erial Image	ry (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	etated Cor	cave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposit	s (B15)			Presence of Reduced Iron (C4)				
Water Ma				Hydrogen Su				☐ Salt Deposits (C5)				
	Deposits (B2)			Dry-Season					Stressed Plants (D1)			
☐ Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)			
	or Crust (B4)								uitard (D3)			
☐ Iron Depo	. ,								raphic Relief (D4)			
	oil Cracks (B6)							☐ FAC-neutra	l Test (D5)			
Field Observa Surface Water		Yes O	No (•)	Donth (inch	2011							
		Yes •		Depth (inche	,							
Water Table P				Depth (inche	es): 9		Wetiai	nd Hydrology Presen	t? Yes • No O			
Saturation Pre (includes capi		Yes •	No O	Depth (inche	es): 1							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
water pooling at 9 inches depth												
water pooling a	ac a munes dept											

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