WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 22-Jun-12		
Applica	nnt/Owner: Alaska Energy Authority		Sampling Point: SW12_T25_08				
	gator(s): JGK	ce, hummocks etc.): Hillside					
Local r	elief (concave, convex, none): hummocky		Slope: 46.6				
Subrea	jion : Southcentral Alaska	Lat.:	62.797839908	 88	Long.: -149.245929967 Datum: WGS84		
_	p Unit Name:	02.707000000		NWI classification: Upland			
	natic/hydrologic conditions on the site typical for this tir	no of woor	2 Vac	● No ○	(If no, explain in Remarks.)		
Are V Are V	regetation , Soil , or Hydrology segetation , Soil , or Hydrology not	ignificantly aturally pr ving san	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No ○ eded, explain any answers in Remarks.)		
	()	the Sam	pled Area				
	· · · · · · · · · · · · · · · · · · ·				· Vetland? Yes ○ No ●		
	Wetland Hydrology Present? Yes O No						
	arks: ETATION - Use scientific names of plants. Lis	st all spe	ecies in the		Dominance Test worksheet:		
Tree	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)		
1.	Picea glauca	8	✓	FACU	That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant		
2.		0			Species Across All Strata: 4 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 50.0% (A/B)		
5.					Prevalence Index worksheet:		
	Total Cover:				Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	4 20%	of Total Cover	1.6	OBL Species		
1.	Alnus viridis ssp. sinuata	50	✓	FAC	FACW Species 5 x 2 =10		
2.	Viburnum edule	2		FACU	FAC Species 91 x 3 = 273		
3.	Linnaea borealis	1		FACU	FACU Species 36 x 4 = 144		
4.	Rubus pubescens	5		FACW	UPL Species x 5 =0		
5.					Column Totals: <u>132</u> (A) <u>427</u> (B)		
6.		0			Prevalence Index = B/A =		
7.					Trevalence index – B/A –		
8.					Hydrophytic Vegetation Indicators:		
					☐ Dominance Test is > 50%		
10.		0			☐ Prevalence Index is ≤3.0		
Her	Total Cover: b Stratum 50% of Total Cover:		_	11.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
	Lycopodium clavatum		✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Trientalis europaea			FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Calamagrostis canadensis	40		FAC	be present, unless disturbed of problematic.		
	Sanguisorba menziesii	-		FAC	Plot size (radius, or length x width)		
					% Cover of Wetland Bryophytes 0		
					(Where applicable) % Bare Ground		
					Total Cover of Bryophytes <u>15</u>		
		0			Hydrophytic		
	Total Cover:	Vegetation					
	50% of Total Cover:	33 20%	of Total Cover	13.2	Present? Yes ○ No ●		
		66 33 20%		13.2			

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SOIL Sampling Point: SW12_T25_08

C CI - Descript	' (Dihe te	·	I I to door	· · · · · · · · · · · · · · · · · · ·	~ - #a al		, A		10mc. 54412_125_66		
		the depth ne Matrix	eded to docur	ment the indicator or co	onfirm the at dox Featu		ators)				
Depth (inches)			O/-			Type ¹	_Loc_2	Texture	Remarks		
0-7	Color (mo	ist)	<u> </u>	Color (moist)		Type	LOC	Fibric Organics	NGHIGI NG		
	10)/D	2/2									
7-12	10YR							Silty Clay	20% sub ang rocks 1-2in		
12-14	10YR	2/2	40					Silty Clay	60% largge cobbles >4in		
	-										
	-							-			
¹Type: C=Co	ncentration. D=	=Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	– ——— re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	ic Hydric So	oils: ³				
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
	edon (A2)			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox \	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 o	olor chang	je in Remark	(S				
Restrictive Laye	er (if present):										
Type:	. () 7							Hydric Soil Present	? Yes ○ No •		
Depth (incl	nes):										
Remarks:											
Kemarks.											
HYDROLO											
Wetland Hyd									cators (two or more are required)		
	tors (any one	is sufficient)					Water Stained Leaves (B9)			
	/ater (A1)			☐ Inundation V		_			Patterns (B10)		
☐ High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation				Marl Deposit	. ,				f Reduced Iron (C4)		
Water Ma	• ,			Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
Drift Depo				Uther (Expla	in in Rema	arks)			ic Position (D2)		
l — -	or Crust (B4)								juitard (D3)		
☐ Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutra	Il Test (D5)		
Field Observa		Voc (No •	Danth (in als.							
Surface Wate				Depth (inche	,						
Water Table F			No 💿	Depth (inche	es):		Wetlai	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre (includes capi		Yes O	No •	Depth (inche	es):						
Describe Recor	ded Data (stre	am gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
remarks.											

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