WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Aug-12			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T53_07			
nvesti	gator(s): CTS, EKJ		Landform (hillside, terrace, hummocks etc.): Toeslope					
Local r	relief (concave, convex, none):convex		Slope: 1.7 % / 1.0 ° Elevation: 685					
Subreg	gion : Southcentral Alaska	Lat.:	62.80977990	62.8097799076 Long.: -149.065679969 Datum: WGS84				
Soil Ma	ap Unit Name:			NWI classification: Upland				
Are V	matic/hydrologic conditions on the site typical for /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map	significan naturally	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes No eded, explain any answers in Remarks.) s, transects, important features, etc.			
Rem	Hydric Soil Present? Yes ○	No ○ No ● No ● , though small i	w	rithin a W				
/EGE	ETATION - Use scientific names of plan	its. List all sp	ecies in the	plot.				
		Absolute	e Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.					Total Number of Dominant			
2.		0	_		Species Across All Strata: 3 (B)			
3.					Percent of dominant Species			
4.			-		That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.		Cover: 0 20'	_		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	olling/Shrub Stratum 50% of Total Cove	r: <u>0</u>	OBL Species x 1 =					
1.	Betula glandulosa	60		FAC	FACW Species 11 x 2 = 22			
2.	Vaccinium uliginosum	40	_ 💆	FAC	FAC Species 107 x 3 = 321			
3.	Spiraea stevenii			FACU	FACU Species 26.1 x 4 = 104.4			
4.	Empetrum nigrum			FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Vaccinium vitis-idaea			FAC	Column Totals: <u>144.1</u> (A) <u>447.4</u> (B)			
6. 7.	Ledum decumbens	0		FACW	Prevalence Index = B/A =3.105_			
8.					Hydrophytic Vegetation Indicators:			
_			-		✓ Dominance Test is > 50%			
			-		☐ Prevalence Index is ≤3.0			
		Cover: <u>118</u>	— _ 0% of Total Cove	er: 23.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus canadensis	25	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Trientalis europaea	0.1		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Rubus chamaemorus	1	_	FACW	be present, unless disturbed or problematic.			
4.					Plot size (radius, or length x width) 10m			
					% Cover of Wetland Bryophytes			
			-		(Where applicable)			
			-		% Bare Ground			
8.			-		Total Cover of Bryophytes			
_		0	-					
				_ Hydrophytic Vegetation				
	Total		_					
		Cover: 26.1		r: 5.22	Vegetation Present? Yes No			

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SOIL Sampling Point: SW12_T53_07

Profile Descripti			needed to doci	ument the indicator or co			cators)				
Depth —		Matrix		Redox Features							
(inches)	Color (mo	oist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-5			90					Fibric Organics	10% roots		
5-7	10YR	5/2						Fine Sandy Loam	charcoal on top		
7-10	2.5YR	2.5/1	100%					Sand	fades to 2.5YR 2.5/2		
10-13	10YR	4/6	100					Fine Sandy Loam	-		
13-15	10YR	5/2	100					Fine Sandy Loam			
-					-		-				
¹Type: C=Cor	ncentration. D	=Depletior	n. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
	r Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s				Underlying Layer			
	Sulfide (A4)			Alaska Redox V	-	-		Other (Explain in Remark	rs)		
	Surface (A12)									
Alaska Gle	•	,		³ One indicator of and an appropriat	hydrophyl	tic vegetatio	on, one prin	nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	•	esent			
Alaska Gle	eyed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	KS .				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	itors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficier	nt)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10)			
	er Table (A2)			Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
☐ Saturation	. ,		Marl Deposits (B15)				☐ Presence of Reduced Iron (C4)☐ Salt Deposits (C5)				
Water Ma				☐ Hydrogen Su							
	☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2)								Stressed Plants (D1)		
Drift Depo				Other (Explain	in in Rema	rks)			ic Position (D2)		
Iron Depo	or Crust (B4)								juitard (D3) graphic Relief (D4)		
	oil Cracks (B6)								Il Test (D5)		
Field Observa								TAC ficult	11 1031 (123)		
Surface Water		Yes	O No ●	Depth (inche	·s):						
Water Table F			O No ⊙	-1 (•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		_	_	Depth (inche	es):		Wetia	na riyarology Fresen	ti les 🔾 No 🔾		
(includes capi		Yes	No ●	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											

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