WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Sus	sitna Borougł	n Sampling D	Date: 11-Jul-13		
Applicant/Owner: Alaska Energy Authority			Sar	npling Point:	SW13_T126_10		
Investigator(s): SLI, SCB	Landform (hill	side, terrace, hur	mmocks etc.)): Hillside			
Local relief (concave, convex, none): concave	Slope:	%/°	Elevation:	780			
Subregion : Southcentral Alaska Lat.:	62.886001613	38 Long	Long.: -149.389839306		Datum: WGS84		
Soil Map Unit Name:		NWI classification: Upland					
	ntly disturbed? problematic?	(If needed, e	l Circumstan explain any a	in in Remarks.) ces" present? inswers in Rema portant featu			
Hydrophytic Vegetation Present? Yes ○ No ● Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●		the Sampled thin a Wetlar		Yes 🔿 No 🖲			
Remarks: slobe/sdobe on small crest. photo time 1040, #s 1599-	1602						

VEGETATION - Use scientific names of plants. List all species in the plot.

				Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum		Abso % C		Species?	Status	Number of Dominant Species			
1.	Picea glauca		1	\checkmark	FACU	That are OBL, FACW, or FAC: (A)			
2.			0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.			0						
Total Cover:						Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:				of Total Cover:	0.2	OBL Species 0 x 1 = 0			
			20	\checkmark	FAC	FACW Species $1 \times 2 = 2$			
	Betula glandulosa		20			FAC Species <u>59</u> \times 3 = <u>177</u>			
	Vaccinium uliginosum		20		FAC	FACU Species $6.1 \times 4 = 24.4$			
3.	Empetrum nigrum		10		FAC				
4.	Arctostaphylos rubra		5		FAC	UPL Species x 5 =			
5.	Spiraea stevenii		1		FACU	Column Totals: <u>66.1</u> (A) <u>203.4</u> (B)			
	Vaccinium vitis-idaea		0.1		FAC	Prevalence Index = B/A = 3.077			
			0						
			0			Hydrophytic Vegetation Indicators:			
9.			0			Dominance Test is > 50%			
			0			Prevalence Index is ≤3.0			
Total Cover: _56.1_ Morphological Adaptations ¹ (Provide support Herb Stratum 50% of Total Cover: 28.05_20% of Total Cover: 11.22 Remarks or on a separate sheet)									
1			2		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.			2		FACU				
2. 3.	Eastura altaina		2		FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3. 4	Dedieularia labradariaa		1		FACW				
4. 5			1		FAC	Plot size (radius, or length x width) <u>10m</u>			
5. 6	Dedicularia lannonica		1		FAC	% Cover of Wetland Bryophytes (Where applicable)			
0. 7	Chinulum annatinum		0.1		FACU	% Bare Ground			
7. 8.			0						
			0			Total Cover of Bryophytes			
			0						
10.	Total Cover		9.1			Hydrophytic Vegetation			
	50% of Total Cover:	Present? Yes \bigcirc No \bigcirc							
Remarks: abundant lichens including stereo, cladina spp.									

Profile Descriptic		the depth no Matrix	eeded to doc	ument the indicator or cor			ators)				
Depth (inches)	Color (moist)			Color (moist)	lox Features <u>%</u> Type ¹	_Loc_2	Texture	Remarks			
0-2			100		%	Туре	LUC	Sapric Organic			
2-4	10YR	3/2	100					Silt Loam	w coarse sand-fine grav	vels	
4-7	7.5YR	2.5/2	100	,				Loam	w coarse sand-fine grav	els	
7-12	10YR	4/3	100					Loam	w subang gravels to col		
12-20	2.5Y	3/2	100					Loam			
		-,									
	· ·										
	· ·							-			
¹ Type: C=Con	centration. D	=Depletion	. RM=Redu	ced Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pro	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	ange (TA	4) 4] Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	s)		
	Surface (A12	2)		³ One indicator of	hvdrophvt	ic vegetatio	n, one prin	nary indicator of wetland h	vdroloav.		
Alaska Gley	. ,			and an appropriat					,		
Alaska Red	ox (A14) red Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	S				
,		,									
Restrictive Layer Type:	(ir present):	:						Hydric Soil Present	? Yes \bigcirc No	. •	
Depth (inch	es):							nyunc son Present			
no hydric soil ind	dicators										
HYDROLOG	GY										
Wetland Hydr									cators (two or more a	re required)	
Primary Indicat		is sufficien	t)			anial Taxa a s			ned Leaves (B9)		
	r Table (A2)			Inundation Vi		-		Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3)			
				Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15)				Presence of Reduced Iron (C4)			
U Water Mar	ks (B1)		Hydrogen Sul	. ,	(C1)		Salt Deposits (C5)				
Sediment I	Deposits (B2))		Dry-Season V	Vater Tabl	e (C2)		Stunted or Stressed Plants (D1)			
Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)											
Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Microtopographic Relief (D4)											
	il Cracks (B6))									
Field Observa)									
Surface Water		Yes 🤇) No 🖲	Depth (inche	s):						
Water Table Pr	esent?	Yes 🔾) No 🖲	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes 🔿 N	o 🖲	
Saturation Pres (includes capill		Yes C	No 🖲	Depth (inche	,						
Describe Record	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:											

no wetland hydrology indicators