WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15							
Applic:	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T307_01							
nvestigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): Ridgetop												
	elief (concave, convex, none): convex		Slope: 3.5		. <u> </u>							
	jion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84							
		Lat										
	p Unit Name:			<u> </u>	NWI classification: Upland							
	matic/hydrologic conditions on the site typical for this til	•		No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○							
		·	tly disturbed?		omai on outrotairoso prosonti							
Are V	'egetation ☐ , Soil ☐ , or Hydrology ☐ r	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)							
SUMI	MARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes O No •)										
	Hydric Soil Present? Yes ○ No ●		Is	the Sam	pled Area							
	Wetland Hydrology Present? Yes No		wi	ithin a W	/etland? Yes ○ No ④							
Rem	arks: Convex ridgetop with frostboils.		I									
Cin	and Convex Hugetop with Hostbolis.											
/EGI	ETATION - Use scientific names of plants. Li	st all sn	ecies in the	nlot								
	ose scientific flames of plants. Er	ot an sp	recies in the	piot.	Dominance Test worksheet:							
Tro	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species							
1.	e Stratum	70 COVC			That are OBL, FACW, or FAC: (A)							
2.		-			Total Number of Dominant							
3.			·		Species Across All Strata:3(B)							
4.			·		Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)							
5.			· _									
	Total Cover:	:	_		Prevalence Index worksheet: Total % Cover of: Multiply by:							
Sar	ling/Shrub Stratum 50% of Total Cover:	0 209	 % of Total Cover:	0	OBL Species $0 \times 1 = 0$							
					FACW Species 5.1 x 2 = 10.2							
	Betula nana		- _	FAC	FAC Species 52 x 3 = 156							
2. 3.	Picea glauca	<u>5</u> 	-	FACU	FACU Species 16 x 4 = 64							
4.	Rhododendron tomentosum Empetrum nigrum	20	· 🔽	FAC	UPL Species 0 x 5 = 0							
5.	Vaccinium uliginosum	20		FAC								
6.	Vaccinium vitis-idaea			FAC	Column Totals: <u>73.1</u> (A) <u>230.2</u> (B)							
7.	Loiseleuria procumbens	10	· •	FACU	Prevalence Index = B/A = 3.149							
8.	Salix pulchra	0.1		FACW	Hydrophytic Vegetation Indicators:							
	Arctous ruber	10		FAC	✓ Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
	Total Cover:	72.1	_		Morphological Adaptations (Provide supporting data in							
Her	b Stratum 50% of Total Cover:3	36.05 20	% of Total Cover	14.42	Remarks or on a separate sheet)							
1.	Anthoxanthum monticola ssp. alpinum	_ 1		UPL	Problematic Hydrophytic Vegetation (Explain)							
2.		0			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)							
5.			-		% Cover of Wetland Bryophytes							
6.			-		(Where applicable)							
			- 📙		% Bare Ground							
			-		Total Cover of Bryophytes							
			-									
		0			Hydrophytic							
	Total Cover:		_ % of Total Cover:	0.2	Vegetation Present? Yes ○ No ●							

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SOIL Sampling Point: SW15_T307_01

Duefile Descript	ian. (Dagariha ta t	ha danth na	adad to dansum	ant the inc	diantar ar aan	fium the ab	sansa of india	nata wa\		710mc. 51115_1507_01		
	ion: (Describe to t	he depth ne latrix	eded to docum	ient the inc		firm the abs		ators)				
Depth (inches)	Depth —			Color (moist)		%		_Loc_2	Texture	Remarks		
0-2	COIOI (IIIOI	5 t)	<u>%</u>	COIOI (III	OIST		Туре	LUC	fibric organics			
	10VD	2/2		10VD	2/6	50			Sandy Loam			
2-8		3/3		10YR	3/6	50	_ <u>C</u>	M	-	episaturated, not saturated below, till?		
8-14	10YR	2/2							Sandy Loam	not saturated		
						-						
						-						
										. ———		
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	d Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:	_	_	Indicat	ors for Pro	blematic	c Hydric So	oils: ³				
Histosol o	r Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)			Alask	ka Alpine sv	wales (TA5	5)		Underlying Layer			
	Sulfide (A4)			Alas	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	ks)		
Thick Darl	k Surface (A12)			_								
_	eyed (A13)						tic vegetatio be position r		mary indicator of wetland h	ıydrology,		
Alaska Re	dox (A14)						•		esent			
Alaska Gle	eyed Pores (A15)		⁴ Give d	letails of co	lor change	e in Remark	(S				
Restrictive Lay	er (if present):											
Type:	er (ii present).								Hydric Soil Present	:? Yes ○ No •		
Depth (incl	nes):								Hyuric Son Fresche	.: 165 C NO C		
. ,								1				
Remarks:	- diantara											
no hydric soil ii	luicators											
HYDROLO												
-	rology Indicat		_							icators (two or more are required)		
	tors (any one is	sufficient)						Water Stained Leaves (B9)			
	Vater (A1)						erial Image	, , ,		Patterns (B10)		
	er Table (A2)						ncave Surfac	ce (B8)		Rhizospheres along Living Roots (C3)		
Saturation					arl Deposits	,				of Reduced Iron (C4)		
☐ Water Ma					drogen Sulf				☐ Salt Depos			
	Deposits (B2)				y-Season W					r Stressed Plants (D1)		
☐ Drift Dep				∐ Ot	her (Explair	ı in Remai	rks)			ic Position (D2)		
	or Crust (B4)									quitard (D3)		
Iron Depo										graphic Relief (D4)		
	oil Cracks (B6)							1	☐ FAC-neutra	al Test (D5)		
Field Observa		V	N			_						
Surface Wate	r Present?		No 💿	De	epth (inches	s):						
Water Table F		Yes \cup	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	nt? Yes O No 💿		
Saturation Pro		Yes \bigcirc	No 💿	De	epth (inches	s):						
(includes capi												
Describe Recor	ded Data (strea	m gauge,	monitor well	i, aerial pi	notos, previ	ious inspe	ction) if ava	ailable:				
Remarks:												
no wetland hydrology indicators												

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