WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 07-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T134_07
Investi	gator(s): WAD, BAB		Landform (hil	lside, terrac	ce, hummocks etc.): ridge top
Local	relief (concave, convex, none): hummocky		Slope:	% / 7.0	° Elevation: 832
Subre	gion : Southcentral Alaska	l at ·	62.68843388	 56	Long.: -148.747035981 Datum: NAD83
	ap Unit Name:		02.000+3300	<u> </u>	NWI classification: Upland
		4:£	-0 Voo	● No ○	
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , Soil , or Hydrology	significantl	ly disturbed? roblematic?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sh	owing san	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	0			
	Hydric Soil Present? Yes ○ No	lacktriangle			ppled Area
	Wetland Hydrology Present? Yes ○ No	\odot	W	ithin a W	etland? Yes ○ No ●
Rem	arks:				
	ETATION - Use scientific names of plants.	List all spe Absolute % Cover	Dominant	•	Dominance Test worksheet: Number of Dominant Species
1.	e Stratum	<u> </u>	_ Species:	Status	That are OBL, FACW, or FAC: 2 (A)
2.		0	. 🗀		Total Number of Dominant
3.			·		Species Across All Strata: 2 (B)
4.		$ \frac{0}{0}$	·		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		$ \frac{0}{0}$	·		
	Total Cove				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	: 0	0.00
			_		OBL Species 0 x1 = 0 FACW Species 5.2 x2 = 10.4
	Betula nana	45	. V	FAC	FAC Species 76.1 x 3 = 228.3
2. 3.	Vaccinium uliginosum Vaccinium vitis-idaea		. 🔻	FAC FAC	FACU Species 0 x 4 = 0
4.	Rhododendron tomentosum			FACW	UPL Species 0 x 5 = 0
5.	Arctous ruber		·	FAC	
6.	Empetrum nigrum	- -		FAC	Column Totals: <u>81.3</u> (A) <u>238.7</u> (B)
7.		0	·	-710	Prevalence Index = B/A = 2.936
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Hei	Total Cover 50% of Total Cover:		% of Total Cove	r: <u>16.2</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex bigelowii	0.1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Pedicularis labradorica	0.1		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus	0.1		FACW	be present, unless disturbed or problematic.
4.		-			Plot size (radius, or length x width) 10m
5.					% Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes60
		$ \frac{0}{2}$			
10.	Total Cov				Hydrophytic
	Total Cove	er: <u>0.3</u>			Vegetation
	50% of Total Cover:	0.15 20%	of Total Cover	: 0.06	Present? Yes • No O

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SOIL Sampling Point: SW13_T134_07

(inches)	Color (m	oict)	0/-	Color (m	oict)	%	Type ¹	Loc 2	Texture	Remarks
0-2	Color (m	oist)	<u>%</u>	Color (m	ioist)		Туре	LOC	Hemic Organics	Kemarks
2-7	7.5YR	2.5/3							Coarse Sand	subangular coarse fragments up to 1 in
7-10	10YR	4/4		7.5YR	4/6	35	RM		Sandy Loam	thixotropic
10-12	10YR	3/4	100	7.5110					Sandy Loam	u iixou opic
10-12		3/4							Salidy Loalii	-
										= P
										_
									-	_
										_
Type: C=Cond	centration. D	=Depletior	ı. RM=Reduc						annel. M=Matrix	
lydric Soil In	dicators:						Hydric So	oils: ³	7	
Histosol or I	. ,				ka Color Ch		-		Alaska Gleyed Without I Underlying Layer	Hue 5Y or Redder
☐ Histic Epipe	` ,				ka Alpine sv ka Redox W				Other (Explain in Remai	·kc)
☐ Hydrogen S ☐ Thick Dank ☐	` ,			L Alask	ka Redox W	/Ith 2.51 F	iue		J Other (Explain in Remai	13)
Alaska Gley	Surface (A12	<u>(1)</u>							mary indicator of wetland	hydrology,
Alaska Redo				and an	appropriate	e landscap	e position r	must be pre	esent	
	ed Pores (A1	.5)		4 Give d	letails of co	lor change	e in Remark	(S		
estrictive Layer	r (if present)	<u> </u>								
Type:	(ii preserie)	_'							Hydric Soil Presen	t? Yes ○ No •
									,	
Depth (inche	es):									
Depth (inche emarks: o hydric soil inc		rved.								
emarks:		rved.								
emarks:	dicators obse	rved.								
emarks: o hydric soil inc	dicators obse								_Secondary Inc	licators (two or more are required)
emarks: b hydric soil inc	dicators obse	ators:	ıt)							licators (two or more are required) nined Leaves (B9)
emarks: b hydric soil inc	GY ology Indic ors (any one	ators:	ıt)	☐ Inc	undation Vi	sible on A	erial Image	ry (B7)	Water Sta	nined Leaves (B9) Patterns (B10)
YDROLOG /etland Hydro /brimary Indicate Surface Wa High Water	GY ology Indic ors (any one ater (A1) r Table (A2)	ators:	nt)	☐ Sp	arsely Vege	etated Con	erial Image ncave Surfac		Water Sta	iined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
YDROLOG /etland Hydro Surface Wa High Water Saturation	GY ology Indic ors (any one ater (A1) r Table (A2) (A3)	ators:	nt)	Sp.	arsely Vege Irl Deposits	etated Con (B15)	ncave Surfa		Water Sta Drainage Oxidized Presence	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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YDROLOG YDROLOG YDROLOG Yetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D	dicators observed and constant of the constant	ators: is sufficier	ıt)	Sp. Ma	arsely Vege Irl Deposits drogen Suli y-Season W	etated Con (B15) fide Odor /ater Table	ncave Surfac (C1) e (C2)		Water Sta Drainage Oxidized Presence Salt Depo	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1)
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