WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	//Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Jul-13		
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T139_01				
Investi	gator(s): WAD, BAB	side, terrac	e, hummocks etc.): Bench				
Local i	relief (concave, convex, none): flat		Slope: 3.5	% / 2.0	° Elevation: 454		
Subreg	gion : Southcentral Alaska	Lat.:	62.825578332		Long.: -149.594141483 Datum: WGS84		
	up Unit Name:		NWI classification: PEM1E				
	matic/hydrologic conditions on the site typical for this	time of vear	2 Yes	No ○	(If no, explain in Remarks.)		
	egetation □ , Soil □ , or Hydrology □	•	y disturbed?		Iormal Circumstances" present? Yes No		
	'egetation ☐ , Soil ☐ , or Hydrology ☐	-	roblematic?		eded, explain any answers in Remarks.)		
	MARY OF FINDINGS - Attach site map sho						
			ipinig point	TOGGLIOTIC	s, transcoto, important reatures, etc.		
			Is	the Sam	pled Area		
	, · · · · · · · · · · · · · · · · · · ·		wi	within a Wetland? Yes ● No ○			
Rem	arks: wetland on hillside bench sloping down transe	ct.					
VEGE	ETATION -Use scientific names of plants. I	ist all spe	ecies in the	plot.			
				•	Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:4(A)		
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC:		
5.		0			Prevalence Index worksheet:		
	Total Cove	r: <u> </u>			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species34 x 1 =34		
1.	Betula nana	5	✓	FAC	FACW Species 1 x 2 = 2		
2.	Vaccinium oxycoccos	4	✓	OBL	FAC Species <u>5.1</u> x 3 = <u>15.3</u>		
3.	Chamaedaphne calyculata	1		FACW	FACU Species <u>0.1</u> x 4 = <u>0.400</u>		
4.	Spiraea stevenii	0.1		FACU	UPL Species x 5 =0		
5.	Cornus suecica	0.1		FAC	Column Totals: <u>40.2</u> (A) <u>51.7</u> (B)		
6.		0			Prevalence Index = B/A = 1.286		
7.		0			1 Tevalence midex = B/A =		
8.					Hydrophytic Vegetation Indicators:		
9.					✓ Dominance Test is > 50%		
10.	Tatal Com-	0 r:10.2			✓ Prevalence Index is ≤3.0		
Her	Total Cove b Stratum 50% of Total Cover:	6 of Total Cover	: 2.04	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex limosa	15	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Eriophorum angustifolium	- 15	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.					be present, unless disturbed or problematic.		
					Plot size (radius, or length x width) 10m		
					% Cover of Wetland Bryophytes 95		
					(Where applicable)		
					% Bare Ground		
8.					Total Cover of Bryophytes 95		
		0					
9.		^					
9.					Hydrophytic		
9.		r: <u>30</u>	of Total Cover:	6	Hydrophytic Vegetation Present? Yes No No		

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SOIL Sampling Point: SW13_T139_01

	tion: (Describe to the depth needed to Matrix			document the indicator or confirm the absence of indicators) Redox Features					
Depth (inches)	Color (mois	:t)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-2		,	100	Color (moloc)		.,,,,		Fibric Organics	
2-13			100					Hemic Organics	
									-
					-			-	
¹Type: C=Cor	ncentration. D=[Depletion. I	RM=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³		
	Histel (A1)			Alaska Color Cl	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epip	` ,			Alaska Alpine s	wales (TA	5)		Underlying Layer	
	Sulfide (A4)			Alaska Redox V	With 2.5Y H	Hue		Other (Explain in Remark	(S)
☐ Thick Dark	Surface (A12)			_					
Alaska Gle	yed (A13)			³ One indicator of and an appropriat				mary indicator of wetland h	nydrology,
Alaska Red	lox (A14)					•	•	CSCIIC	
Alaska Gle	yed Pores (A15)			⁴ Give details of co	olor chang	e in Remarl	KS		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes ⊙ No O
Depth (inch	ies):								
HYDROLO	GY								
Wetland Hydi	rology Indicate	ors:						Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)
Surface W	ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	✓ Drainage F	Patterns (B10)
✓ High Wate	` '			Sparsely Veg	etated Cor	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)
✓ Saturation	. ,			Marl Deposits	. ,				of Reduced Iron (C4)
Water Mai				Hydrogen Su				Salt Depos	
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)
☐ Drift Depo	` ,			Other (Explain	in in Rema	rks)			ic Position (D2)
l —	or Crust (B4)								quitard (D3)
☐ Iron Depo	. ,							✓ Microtopog ✓ FAC-neutra	graphic Relief (D4)
Field Observa	oil Cracks (B6)							▼ FAC-neutra	il Test (D5)
Surface Water		Yes O	No 💿	Depth (inche	e). U				
Water Table P		Yes •			•		Wotla	nd Hydrology Presen	t? Yes • No O
Saturation Pre				Depth (inche	es): 6		Wellai	na nyarology Presen	it! fes 🙂 No 🖰
(includes capil		Yes •	No O	Depth (inche	es): 0				
Describe Record	ded Data (strear	m gauge, r	nonitor well	, aerial photos, pre	vious inspe	ection) if av	ailable:		
Remarks:	Anna das de d	harden e							
raint strang pat	tern developing	but no su	rr water at s	site.					

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