WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T162_11			
	igator(s): WAD, RWM	side, terrac	ee, hummocks etc.): Hillside					
Local	relief (concave, convex, none): planar		Slope:		° Elevation: 130			
	gion : Interior Alaska Mountains	lat: (· 63.111819862		Long.: -148.09075582 Datum: NAD83			
	ap Unit Name:		33.111019002					
			. V	No ○	NWI classification: Upland			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map show	significantly naturally pr wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No			
	Hydrophytic Vegetation Present? Yes No C	the Sam	nled Δrea					
	Hydric Soil Present? Yes No 6		Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes No earks: steeper moist graminoid meadow.)	W	uiiii a vv	etiality: 165 % No 9			
	ETATION - Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species			
1.	ee Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:3 (A)			
2.					Total Number of Dominant			
3.					Species Across All Strata: 3 (B)			
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0						
0.	Total Cover				Prevalence Index worksheet:			
Sai	oling/Shrub Stratum 50% of Total Cover:	. 0	Total % Cover of: Multiply by:					
Ja	Jing/ Sin ab Stratum	0 20%	of Total Cover		OBL Species 2 x 1 = 2			
	Salix pulchra			FACW	FAC Species 29 x 2 = 58			
	Salix reticulata		✓	FAC	FAC Species			
	Salix polaris			FACW				
4.								
5.					Column Totals: <u>89.1</u> (A) <u>236.3</u> (B)			
6.		0			Prevalence Index = B/A =			
7.								
9.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
	Total Cover rb Stratum 50% of Total Cover:	30	of Total Cover	Morphological Adaptations ¹ (Provide supporting d				
1.	Carex bigelowii	40	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Carex membranacea			FACW	Indicators of hydric soil and wetland hydrology must			
3.	Stellaria longifolia	0.1		FAC	be present, unless disturbed or problematic.			
4.	Equisetum arvense	1		FAC				
5.	Equisetum scirpoides			FACU	Plot size (radius, or length x width)			
6.	Poa arctica			FAC	% Cover of Wetland Bryophytes (Where applicable)			
1	Arctagrostis latifolia	4		FACW	% Bare Ground			
7.		2		OBL	Total Cover of Bryophytes			
7. 8.	Eriophorum angustifolium							
	Eriophorum angustifolium Micranthes hieraciifolia	1		FAC				
8.		0		FAC	Hydrophytic			
8. 9.		1 0 59.1			Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T162_11

		the depth no	eeded to docu	ment the indicator or co	onfirm the ab		ators)					
Depth (inches)	Color (me			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-1			100	Color (moise,		-770		Fibric Organics				
1-8			100					Hemic Organics				
8-17	10YR	3/3	100					Sand	with golden flakes			
		3/3						Sulfu	with golden makes			
									-			
	-							-				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: ³					
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4)4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y I	lue		Other (Explain in Remark	rs)			
Thick Dark	Surface (A12	2)		3 One indicator of	i buduan bud	ia vaaatatia		nary indicator of wetland h	v dvologv			
Alaska Gle				and an appropria					lydrology,			
Alaska Red	dox (A14) eyed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	s					
Restrictive Laye	er (if nresent):											
Type:	or (iii present).							Hydric Soil Present? Yes ○ No •				
Depth (inch	nes):							rryanic son r resent	. 163 0 110 0			
Remarks:												
HYDROLO	GY											
Wetland Hydi		ators:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one	is sufficien	t)					Water Stained Leaves (B9)				
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (C4)				
High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)									
Saturation (A3)				Marl Deposits (B15)								
Water Ma	rks (B1)	Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)					
Sediment Deposits (B2)						e (C2)		Stunted or	Stressed Plants (D1)			
Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)			
	Algal Mat or Crust (B4)								☐ Shallow Aquitard (D3)			
☐ Iron Deposits (B5)									graphic Relief (D4)			
	oil Cracks (B6))					T	✓ FAC-neutra	Il Test (D5)			
Field Observa		V (No •	5 11 (1 1	,							
Surface Water				Depth (inche	es):							
Water Table P		Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre (includes capi		Yes C	No •	Depth (inche	es):							
Describe Recor	ded Data (stre	eam gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:					
Remarks:												
	only one secondary hydrology indicator observed											
Sing Seed Seed of Translation Seed the Seed of the See												

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