WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Jul-13							
Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T139_04												
Investig	gator(s): WAD, BAB	ee, hummocks etc.): Bench										
Local relief (concave, convex, none): concave Slope: 8.7 % / 5.0 ° Elevation: 435												
Subrea	ion : Southcentral Alaska	Lat · 6			Long.: -149.604930997 Datum: WGS84							
_	p Unit Name:		NWI classification: PEM1F									
			. Voc	No ○								
	natic/hydrologic conditions on the site typical for this till egetation \Box , Soil \Box , or Hydrology \Box s	•	disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○							
		naturally pro			eded, explain any answers in Remarks.)							
				·								
SUMN	MARY OF FINDINGS - Attach site map show		pling point	locations	s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Is the Sampled Area												
	Hydric Soil Present? Yes ● No C)	Is the Sampled Area within a Wetland? Yes ● No ○									
Wetland Hydrology Present? Yes No No Within a Wetland? Yes No No												
Remarks: LOW ELEVATION BASE OF TROUGH AREA WITH SATURATED TUNDRA PONDS AND INNUNDATED PUDDLES (ALMOST STRANG).												
22, 23 photo num, 15,29 photo time												
VEGE	TATION - Use scientific names of plants. Li	st all spe	cies in the	plot.								
		Absolute	Dominant	Indicator	Dominance Test worksheet:							
	e Stratum_	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)							
1.					Total Number of Dominant							
2.		0			Species Across All Strata: 4 (B)							
3.		0			Percent of dominant Species							
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.					Prevalence Index worksheet:							
	Total Cover:		of Total Causes		Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>47</u> x 1 = <u>47</u>							
1.	Dasiphora fruticosa	5	✓	FAC	FACW Species 2 x 2 = 4							
2.	Myrica gale	5	V	OBL	FAC Species <u>11</u> x 3 = <u>33</u>							
	Betula nana	5	~	FAC	FACU Species 0 x 4 = 0							
4.	Vaccinium uliginosum	1		FAC	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Chamaedaphne calyculata			FACW	Column Totals: <u>60</u> (A) <u>84</u> (B)							
	Andromeda polifolia	0		FACW	Prevalence Index = B/A =1.400_							
7.		0			Undershit Vosetsking Indicators							
8. a					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%							
					✓ Prevalence Index is ≤3.0							
10.	Total Cover:	18			Morphological Adaptations ¹ (Provide supporting data in							
Her	b Stratum 50% of Total Cover:		of Total Cover	: 3.6	Remarks or on a separate sheet)							
1.	Trichophorum caespitosum	25	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Comarum palustre	5		OBL	¹ Indicators of hydric soil and wetland hydrology must							
3.	Carex aquatilis	5		OBL	be present, unless disturbed or problematic.							
4.	Carex limosa	_		OBL	Plot size (radius, or length x width)							
5.	Menyanthes trifoliata			OBL	% Cover of Wetland Bryophytes 45							
	Eriophorum angustifolium			OBL	(Where applicable)							
	Equisetum fluviatile			OBL	% Bare Ground							
					Total Cover of Bryophytes 45							
10.	T-t-1C		Ш		Hydrophytic							
	Total Cover: 50% of Total Cover:		of Total Cover:	8.4	Vegetation Present? Yes ● No ○							
-				0.4	1 2 2							
Rem	arks: some emergent vegetation with surrounding m	oss meado	w.									

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SOIL Sampling Point: SW13_T139_04

Profile Descripti		he depth need latrix	ed to document	locument the indicator or confirm the absence of indicators) Redox Features						
(inches)	Color (moi	st)	% Co	olor (moist)	%	Type ¹	Loc 2	Texture	Remarks	
		,		(,		-77-				
		Depletion. RI		Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	ndicators:		In	dicators for Pi		4	oils:			
	r Histel (A1)			Alaska Color C		•		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
Histic Epipedon (A2)				Aluska Alpine swales (1A5)						
Hydrogen	Hydrogen Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue						
	k Surface (A12)		3	One indicator of	hvdrophvt	ic vegetatio	n one orim	nary indicator of wetland h	vdrology	
Alaska Gle				nd an appropria					yurology,	
Alaska Red	` ,		4	Give details of c	olor change	a in Domark	c			
Alaska Gle	eyed Pores (A15)		Oive details of c	olor change	z III Kemark				
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🏵 No 🔾	
Depth (inch	nes):									
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ntors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface W	Vater (A1)		[Inundation V	isible on A	erial Imager	ry (B7)	✓ Drainage F	atterns (B10)	
✓ High Water Table (A2)			[Sparsely Veg	jetated Con	cave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)		
✓ Saturation (A3)			[Marl Deposit	s (B15)			Presence of	f Reduced Iron (C4)	
Water Marks (B1)			[🗌 Hydrogen Sເ	ılfide Odor	(C1)		Salt Depos	its (C5)	
Sediment Deposits (B2)			Dry-Season Water Table (C2)					Stressed Plants (D1)		
☐ Drift Depo	osits (B3)		L	Other (Expla	in in Rema	rks)			ic Position (D2)	
Algal Mat	Algal Mat or Crust (B4)							uitard (D3)		
☐ Iron Depo	. ,							_	raphic Relief (D4)	
☐ Surface S	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)	
Field Observa	ations:									
Surface Water	r Present?	Yes 💿	_	Depth (inche	es): 5					
Water Table F	Present?	Yes 💿	No O	Depth (inche	es): 0		Wetlan	nd Hydrology Presen	t? Yes ⊙ No 🔾	
Saturation Pre (includes capi		Yes	No \bigcirc	Depth (inche	es): 0					
				erial photos, pre	vious inspe	ction) if ava	ilable:			
Remarks:										
water table at	the surface.									

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