## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 25-Jun-12				
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T28_06				
Investi	gator(s): JGK	e, hummocks etc.): Bluff								
Local	relief (concave, convex, none): hummocky	% / 3.0	° Elevation: 721							
Subred	gion : Interior Alaska Mountains	La	t · 6	62.8698481224 Long.: -148.371130674 Datum: NAD83						
	ap Unit Name:		_	2.000040122						
	matic/hydrologic conditions on the site typical for thi	a tima af		Voc	No ○	NWI classification: Upland (If no, explain in Remarks.)				
Are \	/egetation □ , Soil □ , or Hydrology □ /egetation □ , Soil □ , or Hydrology □ MARY OF FINDINGS - Attach site map sh	signific natura	antly	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes  No Oeded, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes   No			_						
	Hydric Soil Present? Yes ○ No	$\bullet$		Is the Sampled Area						
		$\bullet$		within a Wetland? Yes ○ No ●						
Rem:	arks:  ETATION -Use scientific names of plants.	List all	spe	cies in the	plot.					
	·	Abso	lute	Dominant	Indicator	Dominance Test worksheet:				
Tre	e Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)				
1.			0			That are OBL, FACW, or FAC: 4 (A)  Total Number of Dominant				
2.			0			Species Across All Strata:4 (B)				
3.			0			Percent of dominant Species				
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.			0			Prevalence Index worksheet:				
	Total Cov	/er:	0			Total % Cover of: Multiply by:				
Sap	oling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =				
1.	Betula glandulosa		30	<b>✓</b>	FAC	FACW Species <u>25</u> x 2 = <u>50</u>				
2.	Rhododendron tomentosum		25	<b>✓</b>	FACW	FAC Species x 3 =				
3.	Vaccinium uliginosum		20	✓	FAC	FACU Species 0 x 4 = 0				
4.	Vaccinium vitis-idaea		5		FAC	UPL Species				
5.	Empetrum nigrum		10		FAC	Column Totals:100 (A)275 (B)				
6.			0							
7.			0			Prevalence Index = B/A =				
8.			0			Hydrophytic Vegetation Indicators:				
9.			0			✓ Dominance Test is > 50%				
10.			0			Prevalence Index is ≤3.0				
Hei	Total Cover: 50% of Total Cover:		9 <u>0                                    </u>	of Total Cover	:18	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
	Carex bigelowii		10	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
			0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.			0			be present, unless disturbed or problematic.				
			0			Plot size (radius, or length x width)				
			0			% Cover of Wetland Bryophytes				
			0			(Where applicable)				
			0			% Bare Ground5				
			0			Total Cover of Bryophytes60				
			0			Hadan bada				
				<u> </u>		Hydrophytic				
	Total Cov		.0			Vegetation Present?  Yes ● No ○				

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SOIL Sampling Point: SW12\_T28\_06

JUIL								Samping	g Point: 3W12_126_00			
Profile Descripti			eeded to docu	iment the indicator or co			cators)					
Depth		Matrix		Re	Redox Features							
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-1			80		_			Hemic Organics	20% roots			
1-3	10YR	4/2	90					Silt Loam	burn layerabundant charcoal & ash			
3-5	10R	2.5/1	100					Sandy Loam	Fe and Mn concretions			
5-18	2.5Y	4/3	95					Loamy Sand	5% coarse S-subang gravelstaining upper			
									-			
-								-				
<sup>1</sup> Type: C=Cor	ncentration. D=	=Depletion	. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	-			
Hydric Soil I		.,		Indicators for Pi		_						
	Histel (A1)			Alaska Color C		4	J.1.3.	Alaska Gleyed Without H	due 5V or Redder			
Histosof of Histic Epip	` '			Alaska Alpine s		-		Underlying Layer	ide 31 of Redder			
	Sulfide (A4)			Alaska Redox \				Other (Explain in Remar	ks)			
	Surface (A12)	)										
Alaska Gle				<sup>3</sup> One indicator of and an appropria	hydrophyl	tic vegetation	on, one prin	nary indicator of wetland	hydrology,			
Alaska Red	dox (A14)							ESCIT				
Alaska Gle	yed Pores (A1	5)		<sup>4</sup> Give details of c	olor chang	e in Remark	(S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	t? Yes O No 💿			
Depth (inch	nes):							•				
Remarks:												
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Ind	icators (two or more are required)			
Primary Indica	tors (any one i	is sufficien	t)					Water Sta	ined Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)	Drainage	Patterns (B10)			
High Wate	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface						ce (B8)	Oxidized F	Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposit	s (B15)			Presence of Reduced Iron (C4)				
Water Ma				∐ Hydrogen Sւ				☐ Salt Deposits (C5)				
					Water Tabl			Stunted or Stressed Plants (D1)				
	Drift Deposits (B3)  Other (Explain in Remarks)								Geomorphic Position (D2) Shallow Aquitard (D3)			
☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)												
	oil Cracks (B6)							✓ FAC-neutr	graphic Relief (D4)			
Field Observa								▼ TAC-fleuti	ai rest (D3)			
Surface Water		Yes	No ●	Depth (inche	·e).							
Water Table P		_	No ●		,		Wotla	nd Hydrology Presei	nt? Yes ○ No •			
Saturation Pre				Depth (inche	es):		Wetiai	ila nyarology Presei	itr fes 🔾 No 😌			
(includes capi		Yes C	No 💿	Depth (inche	es):							
Describe Recor	ded Data (stre	am gauge	, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:					
Remarks:												

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