## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hyd	roelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13			
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW13_T120_06			
	gator(s): JGK			Landform (hill	side, terrac	e, hummocks etc.): Hillside			
	relief (concave, convex, none)	hummocky		Slope:	% / 9.8				
	gion: Southcentral Alaska	- nanning only	l at ·	 62.709760307		Long.: -149.729716659 Datum: NAD83			
			Lat	62.709760307	9				
	ap Unit Name:				<u> </u>	NWI classification: Upland			
Are \	matic/hydrologic conditions on /egetation	, or Hydrology	significar	ear? Yes Intly disturbed?  problematic?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes   No   No   No   Reded, explain any answers in Remarks.)			
	-		-		•				
SUMI	MARY OF FINDINGS - A	attach site map sho	wing sa	ampling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Prese	ent? Yes O No		_					
	Hydric Soil Present?	Yes O No 🤄	•			npled Area Vetland? Yes ○ No ●			
	Wetland Hydrology Present?	Yes O No 🤄	•	wi	ithin a W				
Rema									
/EGE	ETATION - Use scientific	names of plants. I	ist all si	necies in the	nlot				
	Ose selentine	names of plants. E	-		•	Dominance Test worksheet:			
Tre	e Stratum		Absolut % Cove		Status	Number of Dominant Species			
1.			0			That are OBL, FACW, or FAC: 2 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.			0			Prevalence Index worksheet:			
		Total Cover	:	_		Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20	0% of Total Cover	0	OBL Species 0 x 1 = 0			
1	Vaccinium uliginosum		50	<b>_</b>	FAC	FACW Species 1 x 2 = 2			
2.	Empetrum nigrum		20		FAC	FAC Species 79 x 3 = 237			
3.	Betula nana		- — 5		FAC	FACU Species 13 x 4 = 52			
4.	Vaccinium vitis-idaea		2		FAC	UPL Species0 x 5 =0			
5.	Cassiope tetragona		5		FACU	Column Totals:93 (A)291 (B)			
6.			0						
7.			0			Prevalence Index = B/A = 3.129			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			☐ Dominance Test is > 50%			
10.			0	_		Prevalence Index is ≤3.0			
		Total Cover				Morphological Adaptations <sup>1</sup> (Provide supporting data in			
	b Stratum	50% of Total Cover:		.0% of Total Cover		Remarks or on a separate sheet)			
	Gymnocarpium dryopteris		- 5		FACU	Problematic Hydrophytic Vegetation (Explain)			
				_	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
_					FACU	be present, unless disturbed of problematic.			
	•			_ =	FACW	Plot size (radius, or length x width)			
				_ =		% Cover of Wetland Bryophytes			
						(Where applicable)			
				_ =		% Bare Ground			
				-		Total Cover of Bryophytes 30			
						Hydronhytic			
10		Total Cover	11			Hydrophytic Vegetation			
10.						- ()			
10.		50% of Total Cover:	5.5 20	0% of Total Cover:	2.2	Present? Yes ○ No ●			

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SOIL Sampling Point: SW13\_T120\_06

									7. O.III. 544 15_1125_65			
Profile Description			eded to docum	ent the indicator or co								
Depth	Matrix			Re	dox Features			_				
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	<u>%</u> T	Гуре <sup>1</sup> Lo	oc_ <sup>2</sup>	Texture	Remarks			
0-4								ic Organics	. ———			
4-7	7.5YR	3/2	100				Silty	Clay Loam	A few subangular cobbles 2-5 in diam			
7-9	5YR	3/2	100				Very	y Fine Loamy Sand	Wavy boundary			
9-12	10YR	4/3	100				clay	ey gravel	Large angular cobbles 2-5 in diameter			
-												
-												
Type: C=Con	centration. D		RM=Reduce	ed Matrix <sup>2</sup> Locatio	n: PL=Pore Liv	ning. RC=Roo	t Channel.	M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for P	roblematic H	vdric Soils:						
					4	yuric sons.		ka Gleved Without H	ue 5V or Pedder			
☐ Histosol or Histel (A1) ☐ Alaska Color Change (TA4 ☐ Histic Epipedon (A2) ☐ Alaska Alpine swales (TA5												
Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Alaska Alpine swa  Alaska Redox With							Othe	er (Explain in Remar	(S)			
	Surface (A4)	)										
Alaska Gley		,						ndicator of wetland h	nydrology,			
Alaska Red				and an appropria	te landscape p	osition must b	oe present					
Alaska Gley	yed Pores (A1	5)		4 Give details of c	olor change in	Remarks						
Restrictive Laye	or (if precent):											
Type:	i (ii preseiit).						Ну	dric Soil Present	? Yes ○ No •			
Depth (inch	ies):						Hydric Soil Present? Yes ○ No •					
, ,	103).											
Remarks:	The sales	C - A Na										
Large angular o	obbles at dase	of pit. No	hydric soii iiii	dicators								
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indicat	tors (any one	is sufficient	)					Water Stai	ned Leaves (B9)			
Surface W	ater (A1)			☐ Inundation \	/isible on Aeria	ıl Imagery (B7	<b>'</b> )	Drainage I	Patterns (B10)			
High Water Table (A2)				Sparsely Veg	getated Concav	e Surface (B8	3)	Oxidized Rhizospheres along Living Roots (C3)				
Saturation	(A3)			Marl Deposit	, ,			Presence of	of Reduced Iron (C4)			
Water Mar	rks (B1)			Hydrogen Su	ulfide Odor (C1	.)		Salt Depos	sits (C5)			
	Deposits (B2)				Water Table (C	-			Stressed Plants (D1)			
☐ Drift Depo				U Other (Expla	in in Remarks)	)			ic Position (D2)			
	or Crust (B4)								quitard (D3)			
☐ Iron Depo	` '								graphic Relief (D4)			
	oil Cracks (B6)							☐ FAC-neutra	al Test (D5)			
Field Observa		v ()	N	- 0. C. d.								
Field Observa Surface Water	Present?		No •	Depth (inche	es):			_				
Field Observa Surface Water Water Table P	Present?		No O	Depth (inche	•	w	etland H	ydrology Presen	nt? Yes O No 💿			
Field Observa Surface Water	Present? resent? esent?	Yes $\bigcirc$		, ,	es):	W	etland H	ydrology Presen	nt? Yes ○ No •			
Field Observa Surface Water Water Table Pr Saturation Pre (includes capill	Present? resent? sent? lary fringe)	Yes O	No •	Depth (inche	es):			ydrology Presen	nt? Yes O No •			
Field Observa Surface Water Water Table Pr Saturation Pre (includes capill	Present? resent? sent? lary fringe)	Yes O	No •	Depth (inche	es):			ydrology Preser	nt? Yes O No 💿			
Field Observa Surface Water Water Table Pr Saturation Pre (includes capill	Present? resent? sent? lary fringe)	Yes O	No •	Depth (inche	es):			ydrology Preser	nt? Yes ○ No •			
Field Observa Surface Water Water Table Po Saturation Pre (includes capill Describe Record	Present? resent? esent? lary fringe) ded Data (stre	Yes O Yes O	No •	Depth (inche	es):			ydrology Preser	nt? Yes ○ No ●			
Field Observa Surface Water Water Table Po Saturation Pre- (includes capill Describe Record	Present? resent? esent? lary fringe) ded Data (stre	Yes O Yes O	No •	Depth (inche	es):			ydrology Preser	nt? Yes O No •			
Field Observa Surface Water Water Table Po Saturation Pre- (includes capill Describe Record	Present? resent? esent? lary fringe) ded Data (stre	Yes O Yes O	No •	Depth (inche	es):			ydrology Preser	nt? Yes O No •			

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