## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T125_02		
			Landform (hills	side, terrac			
	Local relief (concave, convex, none): flat Slope: % / 2.3 ° Elevation: 531  Subregion: Southcentral Alaska Lat.: 62.9384044412 Long.: -149.626110436 Datum: NAI coil Map Unit Name: NWI classification: PEM1E  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)			<del> </del>			
	·	L at :					
		Lat	02.930404441				
	·			<u> </u>	<del></del>		
		•					
		•	•		•		
	• •	• •					
SUM	·		Is the Sampled Area within a Wetland?    Dominant Species in the plot.				
	Hydrophytic Vegetation Present? Yes   No C	)	lo.	the Com	unlad Araa		
	Hydric Soil Present? Yes   No	)					
	Wetland Hydrology Present? Yes   No	)	Wit	tnin a w	etiand? Tes © NO ©		
Rem	arks:						
VEG	ETATION - Use scientific names of plants. Li	ist all sp	ecies in the	plot.			
					Dominance Test worksheet:		
Tre	ee Stratum	% Cove					
1.		0					
2.		0					
3.		0	_				
4.							
5.		0			Prevalence Index worksheet:		
	Total Cover	:0_	_				
Saj	pling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species 21.2 x 1 = 21.2		
1	Andromeda polifolia	1		FACW			
2.	Vaccinium exyconose	1			FAC Species 0 x 3 = 0		
3.	Spiraea stevenii	- 1		FACU	FACU Species 1.1 x 4 = 4.400		
4.	- F				UPL Species 0 x 5 = 0		
5.		0	_		Column Totals: <u>24.4</u> (A) <u>29.80</u> (B)		
6.		_					
7.		^	_		Prevalence Index = B/A =1.221_		
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		
He	rb Stratum 50% of Total Cover:	<u>1.5</u> 20		: 0.6	Remarks or on a separate sheet)		
1.	Trichophorum caespitosum	10	_	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Comarum palustre		_	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Carex aquatilis		_	OBL	be present, unless disturbed or problematic.		
4.	Carex rotundata	_	_	OBL	Plot size (radius, or length x width)		
5.	Eriophorum angustifolium		-	OBL	% Cover of Wetland Bryophytes		
6.	Arctagrostis latifolia	1	-	FACW	(Where applicable)		
7.	Viola palustris	0.1	-	FACW	% Bare Ground		
8.	Drosera anglica	0.1	-	OBL	Total Cover of Bryophytes 80		
9.	Carex rariflora	$-\frac{0.1}{0.1}$		OBL FACU			
	Trientalis europaea	Hydrophytic Vegetation					
10.	T. 1. 1. 6.						
10.	<b>Total Cover</b> 50% of Total Cover:		_ % of Total Cover:	4.28	Present? Yes • No •		

US Army Corps of Engineers Alaska Version 2.0

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

		he depth nee	ded to docume	ent the indicator or cor	firm the ab		ators)			
Depth (inches)	Color (mois	et)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-12	Color (Illois	sc)	100	Color (Illoist)	_70_	Туре	LUC	Hemic Organics		
									-	
							-			
¹Type: C=Coi	ncentration. D=	Depletion. F		d Matrix <sup>2</sup> Location				nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric So	oils: <sup>3</sup>			
Histosol o	r Histel (A1)		Į	Alaska Color Ch	ange (TA	4) -		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epip	oedon (A2)		Į	Alaska Alpine s	wales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)		Į	Alaska Redox W	/ith 2.5Y F	lue		Other (Explain in Remarks)		
☐ Thick Darl	k Surface (A12)			30						
Alaska Gle	eyed (A13)			and an appropriate				nary indicator of wetland h	ydrology,	
Alaska Re	dox (A14)						•			
Alaska Gle	eyed Pores (A15	)		<sup>4</sup> Give details of co	olor chang	e in Remark	S			
Restrictive Laye	er (if present):									
Type: froz	en							Hydric Soil Present	? Yes 💿 No 🔾	
Depth (incl	nes): 12in									
Remarks:										
HYDROLO	GV.									
	rology Indicat	ors:						Secondary India	cators (two or more are required)	
-	itors (any one is								ned Leaves (B9)	
✓ Surface V		Sameleney		Inundation Vi	cible on A	orial Imager	v (B7)		atterns (B10)	
	` ,			Sparsely Vege		_		_	hizospheres along Living Roots (C3)	
	✓ High Water Table (A2) Sparsely \ ✓ Saturation (A3) Marl Depo					icave Surrac	.e (b0)		f Reduced Iron (C4)	
Water Ma	• ,			Hydrogen Sul	. ,	(C1)		Salt Depos	` '	
	Deposits (B2)			Dry-Season V				_	Stressed Plants (D1)	
Drift Depo				Other (Explain					ic Position (D2)	
= '	or Crust (B4)			Other (Explain	iiii Keilia	113)		✓ Shallow Aq	` '	
Iron Depo									raphic Relief (D4)	
I — ·	oil Cracks (B6)							✓ FAC-neutra		
Field Observa								I TAC Hedud	1 1030 (103)	
Surface Wate		Yes	No O	Depth (inche	s)· 2					
		_	_		-		347 - 41	. d 11. d. d. d	t? Yes • No ·	
Water Table F		Yes 💿	NO U	Depth (inche	s): 3		wetiar	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pre (includes capi		Yes 💿	No $\bigcirc$	Depth (inches	s): 2					
		m daugo m	nonitor woll	agrial photos pro-	ious incre	action) if as	ilahle:			
pescribe Recor	ucu Data (Strea	ııı yauye, f	ionitoi well,	aerial photos, prev	ious ilispe	cuon) il dVd	ווומטוכ.			
Remarks:										

U.S. Army Corps of Engineers Alaska Version 2.0