WETLAND DETERMINATION DATA FORM - Alaska Region

\nnline	Site: Susitna-Watana Hydroelectric Proje	Cl		brough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Jul-13			
vhhiicai	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T134_05			
nvestig	ator(s): WAD, BAB		۱	Landform (hillside, terrace, hummocks etc.): Channel (active)					
_ocal re	elief (concave, convex, none): concave			Slope: 5.2 % / 3.0 ° Elevation: 839					
Subregi	on: Southcentral Alaska	L	at.: 6	62.688463092		Long.:148.74064219			
Soil Ma	Unit Name:					NWI classification: PSS1E			
Are Ve	egetation , Soil , or Hydrologic getation , or H	/ ☐ signif / ☐ natur	icantly ally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes No No ded, explain any answers in Remarks.) s, transects, important features, etc.			
,	Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Arks: photo num 1101, photo time 16:03	No \bigcirc			the Sam thin a W	pled Area etland? Yes [®] No ○			
ÆGE	TATION -Use scientific names of pl	ants. List al	l spe	cies in the _l	olot.	Dominance Test worksheet:			
Tree	Stratum		olute Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
1.	Statum	-	0		<u> </u>	That are OBL, FACW, or FAC:3(A)			
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			0			Prevalence Index worksheet:			
	To	tal Cover:	0			Total % Cover of: Multiply by:			
Sapl	ing/Shrub Stratum 50% of Total Co	over: 0	20%	of Total Cover:	0	OBL Species 8 x 1 = 8			
1.	Salix barclayi		20	✓	FAC	FACW Species 21.1 x 2 = 42.20			
-	Salix pulchra		20	✓	FACW	FAC Species 21 x 3 = 63			
3.	·		0			FACU Species 0 x 4 = 0			
4.			0			UPL Species 0 x 5 = 0			
5.			0			Column Totals: 50.1 (A) 113.2 (B)			
6.			0						
7			0			Prevalence Index = B/A = 2.259			
8			0			Hydrophytic Vegetation Indicators:			
9			0			Dominance Test is > 50%			
10.			0			Prevalence Index is ≤3.0			
Hert		tal Cover: over:20	40 20%	of Total Cover:	8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	Carex aquatilis		8	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Sedum rosea		1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
٠.,	Viola epipsila		0.1		FACW	be present, unless disturbed or problematic.			
	Sanguisorba canadensis				FACW	Plot size (radius, or length x width) <u>10m</u>			
			0			% Cover of Wetland Bryophytes			
			0			(Where applicable)			
			0			% Bare Ground 0			
			0			Total Cover of Bryophytes			
			0			Hydronhytic			
			10.1	_		Hydrophytic Vegetation			
1		_		of Total Cover:	2.02	Present? Yes • No O			

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)

		ne depth nee	ded to docum	nent the indicator or cor	nfirm the ab		ators)			
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
		-								
								-		
¹Type: C=Co	ncentration. D=I	Depletion. F	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr		4	oils: ³	_		
Histosol or Histel (A1)				Alaska Color Ch	nange (TA	4) -		Alaska Gleyed Without Hue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y F	lue	V	Other (Explain in Remark	S)	
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	ydrology	
Alaska Gle				and an appropriat					ydrology,	
Alaska Re	dox (A14) eyed Pores (A15)	١		4 Give details of co	olor change	e in Remark	S			
Restrictive Laye	er (if present):							Undia Call Barrer	N (A) N (
Type: Depth (incl	200):							Hydric Soil Present	? Yes ● No O	
Remarks:	105).									
	soil due to hydr	opilytic veg	cadon and	· indirection:						
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	itors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface V	/ater (A1)			✓ Inundation V	isible on A	erial Imagei	ry (B7)	✓ Drainage Patterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)		
☐ Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)	
Water Ma				Hydrogen Su				☐ Salt Depos		
Sealment	Deposits (B2)			Dry-Season V					Stressed Plants (D1)	
	or Crust (B4)			Other (Explai	n in Rema	rks)			ic Position (D2) uitard (D3)	
Iron Depo									raphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra	• • •	
Field Observa	· · ·									
Surface Wate		Yes	$_{No}$ \bigcirc	Depth (inche	s): 5					
Water Table F		Yes 🔾		Depth (inche	•		Wetlan	nd Hydrology Presen	t? Yes • No O	
Saturation Pre		_		, ,	•		Trociu.	ia iryaiology i resell	. 105 0 110 0	
(includes capi		Yes O	No •	Depth (inche	s):					
Describe Recor	ded Data (strea	m gauge, n	nonitor wel	l, aerial photos, prev	vious inspe	ection) if ava	ilable:			
Remarks:										

U.S. Army Corps of Engineers Alaska Version 2.0