## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroele	ectric Project	Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date	: 21-Jun-12	
Applica	nt/Owner: Alaska Energy Autho	ority				Sampling Point:	SW12_T33_03	
Investig	gator(s): SLI, EKJ	•	L	andform (hill	side, terrac	e, hummocks etc.): Hillside		
Local re	elief (concave, convex, none):	flat		Slope: 17.6 % / 10.0 ° Elevation: 866				
Subregi	ion: Interior Alaska Mountains		Lat: 6	62.7804499082 Long.: -148.366889971 Datum: WGS				
_	p Unit Name:			NWI classification: Upland				
	·			Voo	No ○		na	
Are Ve		r Hydrology 🔲 s	significantly naturally pro	disturbed?	Are "N	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes  Ided, explain any answers in Remarks	es • No O	
SUMN	MARY OF FINDINGS - Attac	ch site map shov	ving sam <sub>l</sub>	pling point	locations	s, transects, important features	s, etc.	
	Hydrophytic Vegetation Present?	Yes ○ No ⊙						
	Hydric Soil Present?	Yes ○ No ●		Is the Sampled Area within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present?	Yes O No 💿						
Rema	picgla at its northern (down		e the grade	e levels and v	eg becomes	s a low betnan/vaculi community, which	ch transitions to	
VEGE	TATION - Use scientific nar	mes of plants. Lis	st all spec	cies in the	plot.			
			Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree	Stratum		% Cover	Species?	Status	Number of Dominant Species	4 (A)	
1.			0			That are OBL, FACW, or FAC:  Total Number of Dominant	1(A)	
2.			0			Species Across All Strata:	3 (B)	
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC:	33.3% (A/B)	
5.			0			Prevalence Index worksheet:		
		Total Cover:				Total % Cover of: Multip	ly by:	
Sapl	ing/Shrub Stratum 50%	% of Total Cover:	0 20% (	of Total Cover:	0	OBL Species0 x 1 =	0	
1.	Linnaea borealis		5		FACU	FACW Species 0 x 2 =	=0	
2.	Ribes triste		1		FAC	FAC Species <u>82</u> x 3 =	<u> 246</u>	
3.	O-::		2		FACU	FACU Species 22 x 4 =	= 88	
4.	Alassa sizialia ana azina		80	✓	FAC	UPL Species 1 x 5 =	=5	
5.			0			Column Totals: 105 (A)	339 (B)	
6.			0			,	2 220	
7.			0			Prevalence Index = B/A =	3.229	
8.			0			Hydrophytic Vegetation Indicators:		
9.			0			Dominance Test is > 50%		
10.						Prevalence Index is ≤3.0		
-		<b>Total Cover:</b> % of Total Cover:		of Total Cover		Morphological Adaptations <sup>1</sup> (Provid Remarks or on a separate sheet)		
					FAC	Problematic Hydrophytic Vegetation		
			7	<b>✓</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hybe present, unless disturbed or problematic	drology must	
0.					FACU	be present, unless disturbed of problems	uuc.	
	Daventenia armana		1		FACU	Plot size (radius, or length x width)	_10m	
					1 ACU	% Cover of Wetland Bryophytes		
						(Where applicable)		
						% Bare Ground	_70	
						Total Cover of Bryophytes	_25	
			0			Usalan podi		
10.		Total Cover:		_		Hydrophytic Vegetation		
	50%	6 of Total Cover:		of Total Cover:	3.4	Present? Yes No		
Rema								
INCINE	ui noi							

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12\_T33\_03

001=								Jp	1 toliit. 54112_155_65		
Profile Description	on: (Describe to	the depth ne  Matrix	eded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (m			Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-2	COIOI (III	Olsty	100	color (moise)		1700	200	Fibric Organics			
2-4			100		-			Hemic Organics			
4-8	7.5YR	2.5/2	90					Loam	10% angular gravels		
8-11	5YR	2.5/1	90		-			Loam	10% angular gravels and cobbles		
					-			Loam			
11-15	7.5YR	2.5/2	40					Loaiii	60% coarse sand to angular cobbles		
¹Type: C=Con	centration. D	=Depletion	RM=Reduc	ced Matrix <sup>2</sup> Location	າ: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pr	oblemati	c Hydric Sc	oils:				
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 I	Hue		Other (Explain in Remarks)			
Thick Dark	Surface (A12	2)		3 One indicator of	b. dropb.	tia vaaatatia		ann indiantar of watland b	vedvolo ov		
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland hesent	lydrology,		
Alaska Red	` '			4 Give details of co	olor chang	e in Demark					
☐ Alaska Gle	yed Pores (A1	L5)		Give details of Co	nor chang	e iii Keiliaik					
Restrictive Laye	er (if present)	:									
Type:								Hydric Soil Present? Yes ○ No •			
Depth (inch	nes):										
Remarks:											
no hydric soil indicators											
HYDROLO	GY										
Wetland Hydr	rology Indic	ators:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficient	:)					Water Stained Leaves (B9)			
Surface W	ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	Drainage P	Patterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)			
Saturation (A3)				Marl Deposits (B15)							
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				☐ Salt Depos			
	Deposits (B2)	)		☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				U Other (Explai	n in Rema	ırks)			ic Position (D2)		
	or Crust (B4)								juitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6	)						☐ FAC-neutra	Il Test (D5)		
Field Observa		Voc C	No •	Death Code							
Surface Water				Depth (inche	s):				0 0		
Water Table P		Yes C	No 💿	Depth (inche	:s):		Wetlar	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	:s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
The control of the co											
Remarks:											
no wetland hyd	Irology indicat	tors									
,	3,										

U.S. Army Corps of Engineers Alaska Version 2.0