## WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydroelectric Project	I	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 24-Aug-15		
pplica	int/Owner: Alaska Energy Authority				Sampling Point: SW15_T343_07		
vesti	gator(s): ERT, TXC		Landform (hil	lside, terrac	ce, hummocks etc.): Toeslope		
ocal r	elief (concave, convex, none): hummocky		Slope: 1.7	% / 1.0	° Elevation:		
ubrec	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
_	p Unit Name:				NWI classification: PSS3B		
	natic/hydrologic conditions on the site typical for this	time of voc	r) Vac	● No ○	(If no, explain in Remarks.)		
Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology  MARY OF FINDINGS - Attach site map sh	significant naturally p owing sar	ly disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes  No  deded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes   No	out of A cons					
	Hydric Soil Present? Yes ● No	$\circ$	Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes   No	$\circ$	W	ithin a W	retland? res @ No C		
Rema	arks: dwarf ericaceous tundra on small frost hummo	cks.					
EGE	ETATION -Use scientific names of plants.	List all sp		plot.	Dominance Test worksheet:		
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1.					Total Number of Dominant		
2.					Species Across All Strata: 4 (B)		
3.					Percent of dominant Species		
4. 5.					That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	Total Cov.				Prevalence Index worksheet:		
<b>6</b>			- % of Total Cover	. 0	Total % Cover of: Multiply by:		
Зар	ling/Shrub Stratum 50% of Total Cover:			: _ 0	OBL Species 0 x1 = 0		
1.	Rhododendron tomentosum	33	<b>✓</b>	FACW	FACW Species 40.1 x 2 = 80.2		
2.	Empetrum nigrum		<b>✓</b>	FAC	FAC Species 39 x 3 = 117 FACU Species 1 x 4 = 4		
3.	Vaccinium uliginosum		<b>✓</b>	FAC			
4. -	Betula nana	$-\frac{4}{3}$		FAC			
5.	Vaccinium vitis-idaea			FACU FACU	Column Totals: <u>80.1</u> (A) <u>201.2</u> (B)		
6. 7.	Picea glauca	$ \frac{1}{0}$		FACU	Prevalence Index = B/A =2.512_		
٧. 8		$ \frac{0}{0}$			Hydrophytic Vegetation Indicators:		
9.					Dominance Test is > 50%		
					✓ Prevalence Index is ≤3.0		
	Total Cover: 50% of Total Cover:		- % of Total Cove	r: <u>14.6</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Rubus chamaemorus	6	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation (Explain)		
2.	Petasites frigidus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Eriophorum vaginatum			FACW	be present, unless disturbed or problematic.		
4.		0			Plot size (radius, or length x width) 5m		
					Plot size (radius, or length x width)		
6.		0			(Where applicable)		
					% Bare Ground		
		_			Total Cover of Bryophytes		
9.							
10.					Hydrophytic		
	<b>Total Cove</b> 50% of Total Cover:			. 443	Vegetation Present? Yes ● No ○		
			a co condicover	1/1/			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15\_T343\_07

	on: (Describe to t	eded to docume	to document the indicator or confirm the absence of indicators)  Redox Features									
Depth (inches)	Color (moi	st)	%	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6									Peat	Oi		
6-11									Mucky Peat	Oe		
11-13						-		-	Muck	Oa		
13-16		4/2	90	5Y	4/1	10		PL	Silt Loam			
	2.51	4/2	90	31	- 4/1			- FL	Silt Loain	Cgjj		
						-						
¹Type: C=Con	centration. D=	Depletion.	RM=Reduce	d Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicat	tors for Pro	oblematio	: Hydric S	oils: <sup>3</sup>				
	Histel (A1)				ska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	` ,				ska Alpine sv		-		Underlying Layer			
	Sulfide (A4)			Alas	ska Redox W	/ith 2.5Y F	lue	<b>✓</b>	Other (Explain in Remar	ks)		
_ ′ ′	Surface (A12)											
Alaska Gle	yed (A13)				ndicator of appropriate				mary indicator of wetland h	nydrology,		
Alaska Red	lox (A14)					-	•	•	esent			
Alaska Gle	yed Pores (A15	)		4 Give	details of co	lor change	e in Remark	KS				
Restrictive Laye	er (if present):											
Type: seas	onal frost								<b>Hydric Soil Present</b>	? Yes • No O		
Depth (inch	es): 24											
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	s sufficient)							Water Stai	ned Leaves (B9)		
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)					Drainage I	Patterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized R	chizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposits (B15)						of Reduced Iron (C4)		
Water Marks (B1)					ydrogen Sul				Salt Depos			
_	Sediment Deposits (B2) Dry-Season Water Table (C2)									Stressed Plants (D1)		
☐ Drift Depo	. ,			☐ O	ther (Explain	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)								✓ Shallow A			
	Iron Deposits (B5)									graphic Relief (D4)		
Field Observa	oil Cracks (B6)							1	<b>✓</b> FAC-neutra	ai Test (D5)		
Surface Water		Yes 〇	No (	D	epth (inches	-).						
		Yes •				•		Watle	and Handwalama Danasa	nt? Yes • No O		
Water Table P				D	epth (inches	s): 14		wetia	nd Hydrology Presen	it? Yes • No ·		
Saturation Pre (includes capil		Yes	No O	D	epth (inches	s): 4						
Describe Record	ded Data (strea	am gauge, r	monitor well,	aerial p	hotos, prev	ious inspe	ction) if av	ailable:				
Remarks: C4positive reaction to alpha, alpha dipyridol. D2toeslope. D3seasonal frost.												
C4positive rea	ection to alpha,	alpha dipy	ridol. D2to	eslope. I	D3seasona	ıl frost.						

U.S. Army Corps of Engineers Alaska Version 2.0