## WETLAND DETERMINATION DATA FORM - Alaska Region

roject	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Aug-15		
pplica	ant/Owner: Alaska Energy Authority				Sampling Point: <b>SW15_T303_1</b>	.0	
vesti	gator(s): WAD, SCB	I	_andform (hil	lside, terrac	e, hummocks etc.):		
ocal r	relief (concave, convex, none): hummocky		Slope: 17.6	3 % / 10.0	) ° Elevation:		
ubrec	gion: Interior Alaska Mountains	Lat.:			Long.: Datum: WGS8	34	
	ap Unit Name:	_			NWI classification: Upland		
	matic/hydrologic conditions on the site typical for this	time of year?	) Yes	● 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	significantly naturally pro	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes  No Oded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes   No	$\circ$	_				
	Hydric Soil Present? Yes ○ No	$\odot$	Is the Sampled Area				
	Wetland Hydrology Present? Yes O No	$\odot$	W	ithin a W	/etland? Yes ○ No ●		
Rema	arks:						
EGE	ETATION - Use scientific names of plants.	•			Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
	Picea mariana	20		FACW	That are OBL, FACW, or FAC: 4 (A)	)	
2.					Total Number of Dominant Species Across All Strata: 4 (B)	)	
3.					Percent of dominant Species	,	
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/	/B)	
5.		0			Prevalence Index worksheet:		
	Total Cov	er: <u>20</u>			Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 50% of Total Cover:	10 20%	of Total Cover	:4	OBL Species0 x 1 =0		
1.	Betula nana	40	<b>✓</b>	FAC	FACW Species 45.2 x 2 = 90.4		
2.	Vaccinium uliginosum	30	✓	FAC	FAC Species <u>95</u> x 3 = <u>285</u>		
3.	Picea mariana	15		FACW	FACU Species0 x 4 =0		
4.	Empetrum nigrum	15		FAC	UPL Species 0 x 5 = 0		
5.	Rhododendron tomentosum	10		FACW	Column Totals: <u>140.2</u> (A) <u>375.4</u>	(B)	
6.	Vaccinium vitis-idaea			FAC	Prevalence Index = B/A = 2.678	2.678	
7.	Salix pulchra			FACW	<u> </u>		
8.					Hydrophytic Vegetation Indicators:		
		$ \frac{0}{0}$			Dominance Test is > 50%		
	Total Cov b Stratum 50% of Total Cover:	er: <u>115</u>	of Total Cove	r: 23.02	Prevalence Index is ≤3.0      Morphological Adaptations (Provide supporting data Remarks or on a separate sheet)	in	
	Carex bigelowii	5	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
	Duhua ahamaamarua		Ĭ	FACW	Indicators of hydric soil and wetland hydrology must		
	Rubus chamaemorus				be present, unless disturbed or problematic.		
				-	Plot size (radius, or length x width)		
		_			% Cover of Wetland Bryophytes (Where applicable)		
					% Bare Ground		
8.		0			Total Cover of Bryophytes 70		
9.							
10.					Hydrophytic		
	<b>Total Cov</b> 50% of Total Cover:		-f T-+-! C		Vegetation Present?  Yes ● No ○		
			OF LOTAL COVOR	. 103	riesenti ies - NO -		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15\_T303\_10

Profile Description	on: (Describe to t	the depth nee	eded to docum	nent the ind		firm the abs		ators)			
(inches)	Color (moi	ist)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5									Fibric Organics		
5-8	10YR	3/3	95	7.5YR	3/4	5		PL	Loamy Sand		
8-16	2.5Y	4/2	60	7.5YR	4/6	40	С	PL	Loamy Sand		
						-		-			
¹Type: C=Con	ncentration. D=	Depletion.	RM=Reduce				_		annel. M=Matrix		
Hydric Soil Ir	ndicators:				ors for Pro		4	oils:	7		
l	Histel (A1)				Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder     Underlying Layer		
Histic Epipe	` '				☐ Alaska Alpine swales (TA5) ☐ Alaska Redox With 2.5Y Hue				Other (Explain in Remarks)		
	Sulfide (A4)			AldSi	ta Redox W	IUI 2.51 П	iue		J Other (Explain in Remark	3,	
Alaska Gle	Surface (A12)			<sup>3</sup> One ir	ndicator of I	nydrophyti	ic vegetatio	n, one prir	mary indicator of wetland h	ydrology,	
Alaska Red				and an	appropriate	: landscap	e position r	nust be pr	esent		
	yed Pores (A15	j)		4 Give d	letails of co	lor change	e in Remark	S			
Restrictive Laye	er (if present):										
Type:	,								Hydric Soil Present	? Yes ○ No ●	
Depth (inch	nes):								•		
HYDROLO											
Wetland Hydr										cators (two or more are required)	
Primary Indicat		s sufficient	)							ned Leaves (B9)	
Surface W		☐ Inundation Visible on Aerial Imagery (B7)					☐ Drainage Patterns (B10)				
☐ High Wate		Sparsely Vegetated Concave Surface (B8)				ce (B8)		nizospheres along Living Roots (C3)			
☐ Saturation (A3) ☐ Water Marks (B1)				Marl Deposits (B15)						f Reduced Iron (C4)	
		☐ Hydrogen Sulfide Odor (C1) ☐ Dry-Season Water Table (C2)					Salt Deposi	ts (C5) Stressed Plants (D1)			
Drift Depo	Deposits (B2)			_	y-season w her (Explain					c Position (D2)	
	or Crust (B4)				iei (Expiaii	i iii Keiiiai	iks)		Shallow Aq	,	
☐ Iron Depo	` ,									raphic Relief (D4)	
	oil Cracks (B6)								✓ FAC-neutra		
Field Observa											
Surface Water	Present?	Yes $\bigcirc$	No 💿	De	epth (inches	;):					
Water Table P	resent?	Yes $\bigcirc$	No 💿	D€	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿	
Saturation Pre		Yes O	No •		· ` epth (inches	•					
(includes capil							ction) if ava	nilable:			
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:				-							
no primary hydrology indicators											

U.S. Army Corps of Engineers Alaska Version 2.0