## WETLAND DETERMINATION DATA FORM - Alaska Region

roject	t/Site: Susitna-Watana Hydroele	ctric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Aug-15		
Applica	ant/Owner: Alaska Energy Author	rity				Sampling Point: SW15_T312_04		
nvesti	gator(s): SLI, ATH			Landform (hil	lside, terrac	e, hummocks etc.): Hillside		
ocal r	relief (concave, convex, none): n	one		Slope: 7.0	% / 4.0	° Elevation:		
ubrec	gion: Cook Inlet Mountains		Lat.:			Long.: Datum: WGS84		
oil Ma	ap Unit Name:					NWI classification: PSS1B		
	matic/hydrologic conditions on the s	eite tynical for this t	ime of ve	ar? Yes	● No ○	(If no, explain in Remarks.)		
		Hydrology	-	ntly disturbed?		lormal Circumstances" present? Yes  No		
		Hydrology $\square$	·	problematic?		eded, explain any answers in Remarks.)		
		-	•					
UMI	MARY OF FINDINGS - Attac	h site map sho	wing sa	ampling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present?	Yes   No	$\supset$					
	Hydric Soil Present?	Yes   No	$\supset$	Is	the Sam	pled Area		
	Wetland Hydrology Present?	Yes   No	$\supset$	w	ithin a W	Vetland? Yes     No ○		
Rema	arks: black spruce woodland with ta		. many se	ens. abundant	dead/down	trees.		
EGE	ETATION - Use scientific nan	nes of plants. L	ist all s <sub>l</sub>	pecies in the	plot.	Dominance Test worksheet:		
T	a Shrahiim		Absolut % Cove		Indicator Status	Number of Dominant Species		
1.	<u>e Stratum</u> Picea mariana		20	Species:	FACW	That are OBL, FACW, or FAC: 3 (A)		
2.				- 🖳		Total Number of Dominant		
3.				-		Species Across All Strata: 4 (B)		
4.				-		Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)		
5.			- 0	-				
		Total Cove	r:	_		Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 50%	of Total Cover:	10 20	— 0% of Total Cover	: 4	OBL Species $0 \times 1 = 0$		
			20	<b>~</b>	FAC	FACW Species 38 x 2 = 76		
1. 2.	Alnus viridis ssp. sinuata				FACW	FAC Species 52.1 x 3 = 156.3		
3.	Spiraga stovonii		- <u>5</u> 3	- 📙	FACU	FACU Species 30.1 x 4 = 120.4		
4.	Vaccinium vitia idaca		- <del>- 3</del>	-	FAC	UPL Species 0 x 5 = 0		
5.	Dibas triats		- 3	-	FAC			
6.	Vaccinium uliginosum	1		FAC	Column Totals: <u>120.2</u> (A) <u>352.7</u> (B)			
7.	Linnaea borealis	0.1		FACU	Prevalence Index = B/A = 2.934			
8.						Hydrophytic Vegetation Indicators:		
9.			0	_		✓ Dominance Test is > 50%		
10.			0			✓ Prevalence Index is ≤3.0		
		<b>Total Cove</b> 6 of Total Cover:			r: 9.02	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Spinulum annotinum		20	_	FACU	Problematic Hydrophytic Vegetation (Explain)		
2.	Equisetum sylvaticum		15	_	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Petasites frigidus		5	_ 📙	FACW	be present, unless disturbed or problematic.		
4.	Dryopteris expansa		5	_	FACU	Plot size (radius, or length x width) 10m		
5.				_	FACW	% Cover of Wetland Bryophytes		
6.	Rubus chamaemorus		3		FACW	(Where applicable)		
7.			2		FACU	% Bare Ground5		
_	Athyrium cyclosorum				FAC	Total Cover of Bryophytes 90		
			0	_				
9.				1 1				
			0			Hydrophytic		
9.			0 r:55.1		: 11.02	Hydrophytic Vegetation Present?  Yes  No		

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SOIL Sampling Point: SW15 T312 04

JUIL									Samping	Point: 3W15_1312_04	
Profile Description	•		needed to doc	ument the in				ators)			
Depth (inches)	Matrix					ox Features	2	- <u>-</u> .	Parranto.		
(inches) 0-2	Color (me	oist)	<u>%</u>	Color (n	noist)	_%_	Type <sup>1</sup>	<u>Loc</u> <sup>2</sup>		Remarks	
2-3									Mucky Peat		
		2.5/2	1000/			-			· <del>- · · · · · · · · · · · · · · · · · ·</del>		
3-4.5	7.5YR	2.5/2	100%						Silt Loam		
4.5-12	10YR	3/3	100%						Sandy Clay Loam		
12-18	5Y	4/3	70%	2.5Y	4/4	20%	C	PL	Sandy Clay Loam		
+mottle				7.5YR	4/6	10%	C	PL	Sandy Clay Loam		
¹Type: C=Con	centration. D	=Depletio	n. RM=Redu	iced Matrix	<sup>2</sup> Location:	PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil In	ndicators:			Indicat	tors for Pro	blematic	Hydric So	oils: <sup>3</sup>			
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA4	<b>4</b>		Alaska Gleyed Without Hu	e 5Y or Redder	
Histic Epip	edon (A2)			Alas	ska Alpine sw	ales (TA5	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			Alas	ika Redox Wi	ith 2.5Y H	lue		Other (Explain in Remarks	5)	
	Surface (A12	2)		3 ∩ne i	ndicator of h	vdronhyti	ic vegetatio	n one nrin	mary indicator of wetland hy	ydrology	
Alaska Gle					appropriate					diology,	
✓ Alaska Red	, ,	<b>5</b> \		4 Give	details of col	or change	e in Remark	S			
Alaska Gle	yed Pores (A1	.5)									
Restrictive Laye	r (if present):	:									
	dy Clay Loam								Hydric Soil Present?	Yes   No	
Depth (inch	es): 4.5										
Remarks:											
HYDROLO											
Wetland Hydr										ators (two or more are required)	
Primary Indicat		is sufficie	nt)							ed Leaves (B9)	
	☐ Surface Water (A1) ☐ Inundation Visible on Aerial Imagery (B: ☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (Bt						, , ,	·			
							cave Surfac	e (B8)		Reduced Iron (C4)	
✓ Saturation (A3)  Water Marks (B1)				<ul><li>✓ Marl Deposits (B15)</li><li>✓ Hydrogen Sulfide Odor (C1)</li></ul>					Salt Deposit	` '	
Sediment Deposits (B2)					Dry-Season Water Table (C2)					Stressed Plants (D1)	
Drift Deposits (B3)					Other (Explain in Remarks)					: Position (D2)	
								Shallow Aqu			
☐ Iron Deposits (B5)										raphic Relief (D4)	
	oil Cracks (B6)	)							FAC-neutral		
Field Observa	tions:										
Surface Water	Present?	Yes(	⊃ No ⊙	D	epth (inches	):					
Water Table P	resent?	Yes(	● No ○	D	epth (inches	): 4		Wetla	nd Hydrology Present	:? Yes • No •	
Saturation Pre	sent?	Vac	● No ○		epth (inches	•					
(includes capil	lary fringe)	165 \	J 110 C		spur (inches	). 2					
Describe Record	ded Data (stre	eam gauge	e, monitor w	ell, aerial p	hotos, previ	ous inspe	ction) if ava	ilable:			
Remarks:											
Numerous seeps within community, but no standing water.											

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