## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bc	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12								
Applicant/Owner: Alaska Energy Authority	plicant/Owner: Alaska Energy Authority Sampling Point: SW12_T29_11											
nvestigator(s): SLI, EKJ	L	andform (hill:	side, terrac	e, hummocks etc.): Knob								
Local relief (concave, convex, none): _concave		Slope: 5.2	% / 3.0	° Elevation: 797								
Subregion: Southcentral Alaska	Lat.: 6	2.792419908		Long.: -148.81547997 Datum: WGS84								
Soil Map Unit Name:				NWI classification: Upland								
Are climatic/hydrologic conditions on the site typical for this ti	me of year?	Yes	No ○	(If no, explain in Remarks.)								
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ● No ○												
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)												
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.												
		pling point	locations	s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes   No C	)			1.14.								
Hydric Soil Present? Yes No 🖲	)			pled Area etland? Yes ◯ No ◉								
Wetland Hydrology Present? Yes O No 🗨		Wi	thin a W	etland? Yes UNO S								
	nunitu											
Remarks: kame with multiple barren patches in this comn	nunity.											
<b>EGETATION</b> - Use scientific names of plants. Li	ist all spec	cies in the	plot.									
,	Alexalesta	Daminant		Dominance Test worksheet:								
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.	0			That are OBL, FACW, or FAC:5(A)								
2.	0			Total Number of Dominant Species Across All Strata: 6 (B)								
3.	0			Percent of dominant Species								
4.	0			That Are OBL, FACW, or FAC: 83.3% (A/B)								
5.	0			Prevalence Index worksheet:								
Total Cover	:			Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:	0 20% (	of Total Cover:	0	OBL Species 0 x 1 = 0								
Betula nana	15	<b>✓</b>	FAC	FACW Species 17 x 2 = 34								
Betula glandulosa	5		FAC	FAC Species 53 x 3 = 159								
3. Ledum decumbens	15	<b>✓</b>	FACW	FACU Species 2 x 4 = 8								
Vaccinium vitis-idaea	7		FAC	UPL Species 0 x 5 = 0								
5. Vaccinium uliginosum	3		FAC	Column Totals: 72 (A) 201 (B)								
6. Empetrum nigrum	15	✓	FAC									
7. Arctostaphylos rubra	7		FAC	Prevalence Index = B/A = 2.792								
8. Picea glauca	_1_		FACU	Hydrophytic Vegetation Indicators:								
9. Salix pulchra	1		FACW	✓ Dominance Test is > 50%								
10	0			✓ Prevalence Index is ≤3.0								
Total Cover: 50% of Total Cover:	: 13.8	<ul> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>										
1. Carex bigelowii	1	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
		<b>✓</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
<ol><li>Anthoxanthum monticola ssp. alpinum</li></ol>				be present, unless disturbed or problematic.								
Anthoxanthum monticola ssp. alpinum     Rubus chamaemorus	-	✓	FACW	be present, unless disturbed of problematic.								
3. Rubus chamaemorus	1		FACW									
Dubus shares area	0		FACW	Plot size (radius, or length x width)								
3. Rubus chamaemorus 4.	0		FACW									
3. Rubus chamaemorus 4. 5. 6. 7.	0 0 0		FACW	Plot size (radius, or length x width) % Cover of Wetland Bryophytes								
<ul> <li>3. Rubus chamaemorus</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> </ul>	0 0 0 0		FACW	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable)								
3. Rubus chamaemorus 4. 5. 6. 7. 8. 9.	0 0 0 0 0		FACW	Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  3								
3. Rubus chamaemorus 4. 5. 6. 7. 8. 9. 10.	0 0 0 0 0		FACW	Plot size (radius, or length x width)								
3. Rubus chamaemorus 4. 5. 6. 7. 8. 9.	0 0 0 0 0 0 0			Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  Total Cover of Bryophytes  15								

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SOIL Sampling Point: SW12\_T29\_11

		the depth ne	eded to docum	nent the indicator or co	nfirm the ab		cators)			
Depth (inches)	Color (mo	ist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2			95					Hemic Organics	5% roots	
2-6			95					Sapric Organics	5% roots and semiangular fg	
-	10VD				-					
6-13	10YR	4/6						Sandy Loam	40% semiangular gravels and cobbles	
-					-		-			
-										
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location				annel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>			
Histosol o	r Histel (A1)			Alaska Color Ch	hange (TA	4 4)		Alaska Gleyed Without H	ue 5Y or Redder	
	pedon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer		
	Sulfide (A4)			☐ Alaska Redox V	Nith 2.5Y H	Hue	L	Other (Explain in Remark	(S)	
	k Surface (A12)									
Alaska Gle				<sup>3</sup> One indicator of and an appropriat				mary indicator of wetland h	ydrology,	
Alaska Red								eseni		
	eyed Pores (A15	j)		<sup>4</sup> Give details of co	olor chang	e in Remark	KS			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes):									
<b>HYDROLO</b>	GY									
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ntors (any one i	s sufficient	)					Water Stai	ned Leaves (B9)	
Surface W	Vater (A1)			Inundation V	isible on A	erial Image	ery (B7)	Drainage F	Patterns (B10)	
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposits	s (B15)				of Reduced Iron (C4)	
Water Marks (B1) Hydrogen Sulfide Odor (C1)								Salt Depos		
_ /									Stressed Plants (D1)	
Drift Depo				Uther (Explai	in in Rema	ırks)			ic Position (D2)	
	or Crust (B4)								quitard (D3)	
☐ Iron Depo	` ,							_	graphic Relief (D4)	
	oil Cracks (B6)						1	✓ FAC-neutra	ıl Test (D5)	
Field Observa		C	· • •							
Surface Water			No 💿	Depth (inche	:s):					
Water Table P	Present?	Yes 🔾	No 💿	Depth (inche	:s):		Wetla	nd Hydrology Presen	it? Yes O No 🖲	
Saturation Pre (includes capi		Yes •	No O	Depth (inche	es): 3					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
heavy rain yesterday afternoon and last night. saturation is from the surface, bottom of pit moist but not saturated. no water table, no wetland hydrology.										
Illuvy ruin you.	terday arternoo	II una lace	mgma saca. a	don is nom are sa.	idee, botto	in or pic i	JISC DUC TICC	saturated no mater table,	no wedana nyarology.	

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