WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:20-Aug-15			
Applican	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T301_04			
Investiga			Landform (hillside, terrace, hummocks etc.): Hillside					
Local re	lief (concave, convex, none): none		Slope: 7.0	% / 4.0	° Elevation:			
Subregio	on : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
_	Unit Name:				NWI classification: PSS4B			
Are clima Are Ve Are Ve	atic/hydrologic conditions on the site typical for this tire septention , Soil , or Hydrology , septention , Soil , or Hydrology , or Hydrophytic Vegetation Present?	significant naturally p ving sar	tly disturbed? problematic? mpling point	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances present? Yes No Oeded, explain any answers in Remarks.)			
H	Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes No					
٧	Wetland Hydrology Present? Yes ● No ○)	W	within a Wetland? Yes ● No ○				
	TATION - Use scientific names of plants. Li	Absolute	e Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species			
	Stratum Diago mariana	% Cove		Status	That are OBL, FACW, or FAC:6(A)			
2.	Picea mariana		V	FACW	Total Number of Dominant			
3.					Species Across All Strata: 6 (B)			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)			
5.		0						
-	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sanli	ng/Shrub Stratum 50% of Total Cover:		– % of Total Cover:	6	001.0			
			_		OBL Species 0 x1 = 0			
-	Betula nana	_ 25		FAC	FAC Species 57.1 x 2 = 114.2			
-	Vaccinium vitis-idaea	15		FAC	FAC Species 60 x 3 = 180 FACU Species 0 x 4 = 0			
	Picea mariana			FACW				
_	Empetrum nigrum			FAC				
_	Vaccinium uliginosum	5		FACIA	Column Totals: <u>117.1</u> (A) <u>294.2</u> (B)			
_	Rhododendron tomentosum	5		FACW	Prevalence Index = B/A =2.512			
7								
8. –		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
					✓ Prevalence Index is ≤3.0			
10. –	Total Cover:							
Herb	Stratum 50% of Total Cover:			: 14	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
	Carex bigelowii	10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
_	Rubus chamaemorus			FACW	Indicators of hydric soil and wetland hydrology must			
_	Petasites frigidus	0.1		FACW	be present, unless disturbed or problematic.			
4.					Plot size (radius, or length x width) 10m			
					Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes			
			. 🔲		(Where applicable)			
7		0	. 📙		% Bare Ground5			
			. 📙		Total Cover of Bryophytes 90			
			. 📙					
10		0 	. \square		Hydrophytic			
	Total Cover: 50% of Total Cover: 8	_	2.42	Vegetation Present? Yes ● No ○				
	_			3.42				
Rema	rks: Bryophytes predominantly sphagnum. 10% lich	nen cover	•					

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SOIL Sampling Point: SW15_T301_04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features								ators)				
Depth					lor (moist) Type ¹		_Loc_2	Texture	Remarks			
0-4.5	Color (mo	ist)	<u> </u>	COIOF (II	ioist)		Туре	LOC	Peat	Kemarks		
4.5-8									Mucky Peat			
8-10	10YR	3/2	100						Silt Loam			
10-16	2.5Y	3/2	90	10YR	3/2	10			Sandy Loam	2 matrix colors intermixed.		
									2 Hadix colors intermixed.			
						-		-				
						-			-			
Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Type: C=Con	centration. D=	Depletion.							annel. M=Matrix			
Hydric Soil In				_	ors for Pro		4	oils:	7			
Histosol or Histel (A1) Alaska Color Change (TA4)								☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
✓ Histic Epipe					ka Alpine sv ka Redox W	-	•		Other (Explain in Remark	re)		
	Sulfide (A4)			AldS	ka Reuox W	/IUI 2.51 F	nue		J Outer (Explain in Nemark	υ		
Alaska Gley	Surface (A12)	1							mary indicator of wetland h	ydrology,		
Alaska Red				and an	appropriate	e landscap	e position r	must be pre	esent			
	ed Pores (A15	5)		4 Give	details of co	lor change	e in Remark	(S				
Restrictive Laye	r (if present):											
Type:									Hydric Soil Present	? Yes 💿 No 🔾		
Depth (inch	es):											
Remarks: Faint redox concentrations in 10-16in. layer, but difficult to get color.												
HYDROLO	3Y											
Wetland Hydr		tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat									Water Stained Leaves (B9)			
Surface W	ater (A1)			☐ In	undation Vis	sible on A	erial Image	ry (B7)	(B7) Drainage Patterns (B10)			
✓ High Water Table (A2)						etated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3)					arl Deposits	. ,			Presence of Reduced Iron (C4)			
Water Mar				∐ Ну	drogen Sulf	fide Odor	(C1)		☐ Salt Depos			
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo	` ,			∐ Ot	her (Explair	n in Rema	rks)			ic Position (D2)		
Iron Depos	or Crust (B4)								_	juitard (D3) graphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra			
Field Observa	. ,								TAC ficult	1 (23)		
Surface Water		Yes \bigcirc	No 💿	De	epth (inches	s):						
Water Table Pi			No O		epth (inches	•		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pres						•		110010	,,			
Saturation Present? (includes capillary fringe) Yes No Depth (inches): 3												
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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