## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	Borough/City: Matanusl		a-Susitna Borough Sampling Date: 20-Aug-15			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T306_09			
Investigator(s): WAD, SCB	L	_andform (hil	lside, terrac	e, hummocks etc.): headwater			
Local relief (concave, convex, none): hummocky		Slope:	% /	° Elevation:			
	Lat.:			Long.: Datum: WGS84			
Subregion : Interior Alaska Mountains	Lal						
Soil Map Unit Name:				NWI classification: PSS1B			
	significantly naturally pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes ● No C	)						
Hydric Soil Present? Yes   No C	)			pled Area			
Wetland Hydrology Present? Yes   No C	)	w	ithin a W	Vetland? Yes ● No ○			
Remarks:		<u>'</u>					
VEGETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.	Dominance Test worksheet:			
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)			
1. Picea mariana	10	<b>✓</b>	FACW	That are OBL, FACW, or FAC:6(A)  Total Number of Dominant			
2. Picea mariana	10	<b>✓</b>	FACW	Species Across All Strata: 6 (B)			
3.	0			Percent of dominant Species			
4.	0			That Are OBL, FACW, or FAC:100.0% (A/B)			
5.	0			Prevalence Index worksheet:			
Total Cover	20			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	10 20%	of Total Cover	:4	OBL Species 1 x1 = 1			
1. Salix pulchra	30	<b>✓</b>	FACW	FACW Species 51.1 x 2 = 102.2			
	20	<b>✓</b>	FAC	FAC Species 52.2 x 3 = 156.6			
3 Potulo glanduloso		<b>V</b>	FAC	FACU Species 2 x 4 = 8			
4 Diego glaves			FACU	UPL Species 0 x 5 = 0			
E Faratana siama			FAC				
0 1/2-2			OBL	Column Totals: <u>106.3</u> (A) <u>267.8</u> (B)			
			FAC	Prevalence Index = B/A =2.519_			
	1		FACW	Hadaaahatia Varatatiaa Tadiaataaa			
Rhododendron tomentosum     Rhododendron groenlandicum	$\frac{1}{0.1}$		FAC	Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%			
	0.1		TAC				
10Total Cover				✓ Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cover:		of Total Cove	r: 16.02	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
4. Equipotum anyones	5	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)			
O Detection friedus	0.1	$\overline{\Box}$	FACW	Indicators of hydric soil and wetland hydrology must			
Rumex arcticus	0.1	$\Box$	FAC	be present, unless disturbed or problematic.			
Calamagrostis canadensis			FAC				
5				Plot size (radius, or length x width) <u>10m</u>			
6.				% Cover of Wetland Bryophytes (Where applicable)			
7.							
8.							
9.				Total Cover of Bryophytes 60			
10.	0			Hydronhytic			
Total Cover:		_		Hydrophytic Vegetation			
50% of Total Cover:		of Total Cover	1.24	Present? Yes   No			
Remarks: spruce woodland, mixed picgla and picmar. un	uerstory mo	ostiy saipul ,	petgia, vacu	ıli. lots of sphagnum in moss layer. trace sedge collected			

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SOIL Sampling Point: SW15\_T306\_09

(inches) Colo 0-4 4-7 7-14	r (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks			
4-7											
							Peat				
7-14							Mucky Peat				
							Muck				
Type: C=Concentratio	n. D=Depletion	. RM=Reduced	Matrix <sup>2</sup> Locatio	n: PL=Pore	Lining, RC	=Root Cha	nnel. M=Matrix	-			
lydric Soil Indicators			Indicators for P								
Histosol or Histel (A1)  Alaska Color Change (TA4)					, <b>5.</b>	Alaska Gleved Without Hu	ie 5V or Pedder				
				Handauli duna Lauren							
Insuc Epipedon (Az)						Other (Explain in Remark	s)				
Thick Dark Surface	•							•			
Alaska Gleyed (A13)	. ,						nary indicator of wetland h	ydrology,			
Alaska Redox (A14)			and an appropria	ite landscap	e position r	nust be pre	esent				
Alaska Gleyed Pores	(A15)		<sup>4</sup> Give details of o	color change	in Remark	S					
estrictive Layer (if pres	ent):										
Type:							Hydric Soil Present	? Yes 💿 No 🔾			
Depth (inches):											
YDROLOGY											
etland Hydrology Ir		_						cators (two or more are required)			
rimary Indicators (any	one is sufficient	t)						ned Leaves (B9)			
Surface Water (A1)			Inundation '					atterns (B10)			
✓ High Water Table (	42)		Sparsely Ve		cave Surfac	ce (B8)		nizospheres along Living Roots (C3)			
Saturation (A3) Water Marks (B1)			Marl Deposi	. ,	(61)		Salt Deposi	f Reduced Iron (C4)			
	(D2)		☐ Hydrogen S								
<ul><li>Sediment Deposits</li><li>Drift Deposits (B3)</li></ul>	(BZ)		☐ Dry-Season					Stressed Plants (D1) c Position (D2)			
Algal Mat or Crust (	D4)		U Other (Expla	ain in Remar	rks)			` '			
Iron Deposits (B5)	64)						Shallow Aq	raphic Relief (D4)			
Surface Soil Cracks	(D6)						✓ FAC-neutra	' '			
ield Observations:	(60)						▼ FAC-Heutia	i Test (D3)			
Surface Water Present?	Yes C	No ●	Depth (inch	ec).							
		No O	, ,	•		Wohler	ad Usedvalags, Duagan	t? Yes • No O			
Water Table Present?			Depth (inch	es): 10		Wetiai	nd Hydrology Presen	LF TES S NO S			
Saturation Present? includes capillary fring	<sub>e)</sub> Yes 🖲	No 🔾	Depth (inch	es): 7							
escribe Recorded Data	(stream gauge,	, monitor well,	aerial photos, pre	evious inspe	ction) if ava	ilable:					
emarks: Irface water in apparer											

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