## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Aug-15			
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T351_02			
nvestigator(s): SLI, SCB		Landform (hill	side. terrac	e, hummocks etc.): Hillside			
ocal relief (concave, convex, none): hummocky		Slope: 46.6					
	Lat.:						
Subregion : Interior Alaska Mountains	Lal						
oil Map Unit Name:			<u> </u>	NWI classification: Upland			
	significan naturally wing sa	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○  ded, explain any answers in Remarks.)  s, transects, important features, etc.			
		Is	the Sam	pled Area			
· · · · · · · · · · · · · · · · · · ·				Vetland? Yes ○ No •			
Wetland Hydrology Present? Yes ○ No ● Remarks:		•••					
<b>EGETATION</b> -Use scientific names of plants. Li	Absolut	e Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species			
Tree Stratum  1 Disco plants	% Cove		Status	That are OBL, FACW, or FAC:4 (A)			
1. Picea glauca	10		FACU	Total Number of Dominant			
2. Picea mariana	10	_	FACW	Species Across All Strata:5 (B)			
3.		-		Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.		-		That Are Obl., FACW, OF FAC. 80.0% (A/B)			
Total Cover:	0			Prevalence Index worksheet:			
		– % of Total Cover:	4	Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	10 20		4	OBL Species 0 x 1 = 0			
Betula glandulosa	30	_	FAC	FACW Species <u>25</u> x 2 = <u>50</u>			
2. Alnus viridis	20	_	FAC	FAC Species <u>83</u> x 3 = <u>249</u>			
Vaccinium uliginosum	10	- 📙	FAC	FACU Species 12 x 4 = 48			
Empetrum nigrum	5	- 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
Vaccinium vitis-idaea	5	- 📙	FAC	Column Totals: <u>120</u> (A) <u>347</u> (B)			
6. Rhododendron tomentosum	5	- 📙	FACW	Prevalence Index = B/A = 2.892			
7. Salix pulchra	5	-	FACW				
8. Picea mariana	3	-	FACW	Hydrophytic Vegetation Indicators:			
9. Picea glauca		-	FACU	✓ Dominance Test is > 50%			
Rhododendron groenlandicum     Total Cover:	1		FAC	✓ Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cover:		_ 0% of Total Cover	: 17.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
4 Faviantum autuatiaum	10	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)			
Equisetum sylvaticum     Calamagrostis canadensis		- 🗒	FAC	Indicators of hydric soil and wetland hydrology must			
3. Petasites frigidus		-	FACW	be present, unless disturbed or problematic.			
4. Cornus suecica			FAC				
5. Rubus chamaemorus			FACW	Plot size (radius, or length x width)			
6.				% Cover of Wetland Bryophytes (Where applicable)			
7.				% Bare Ground			
8.				Total Cover of Bryophytes 30			
9.							
10	0	_		Hydrophytic			
1 1 2 1				Vegetation			
Total Cover: 50% of Total Cover:		_ % of Total Cover:		Present? Yes • No •			

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SOIL Sampling Point: SW15\_T351\_02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)  Redox Features										
Depth (inches)	Color (mo		% (	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
0-5	COIOI (IIIO	ist)	<u> </u>	Color (Illoist)		Туре	LUC	Fibric Organics		
5-6								Hemic Organics		
6-19	10YR	4/3			-			Silty Clay Loam		
	10110									
¹Type: C=Cor	ncentration. D=	Depletion. F		Matrix <sup>2</sup> Location				nnel. M=Matrix		
Hydric Soil I	ndicators:		I	ndicators for Pr	oblematio	Hydric So	oils: <sup>3</sup>			
Histosol or Histel (A1)				Alaska Color C	hange (TA4	1)4		Alaska Gleyed Without Hu	ue 5Y or Redder	
Histic Epip	edon (A2)		Ĺ	Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen	Sulfide (A4)		L	Alaska Redox \	Nith 2.5Y F	lue		Other (Explain in Remark	s)	
	Surface (A12)	)		3 One indicator of	hydrophyt	ic vegetation	n one prin	nary indicator of wetland h	vdrology	
Alaska Gle				and an appropria					yurology,	
Alaska Red	dox (A14) eyed Pores (A1!	5)		4 Give details of o	olor change	e in Remark	S			
Restrictive Laye	er (if present):									
Type: silty								Hydric Soil Present?	? Yes ○ No •	
Depth (inch	•							,		
Remarks:										
Horizon 3 Wars	subungular gre	veis unu rev	Tunic redox	concentrations. N	o nyune so	ii iidicacors.				
HYDROLO	GY									
Wetland Hydi	rology Indica	tors:						Secondary Indic	cators (two or more are required)	
Primary Indica	tors (any one i	s sufficient)						Water Stair	ned Leaves (B9)	
☐ Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage P	atterns (B10)	
☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface					e (B8)	Oxidized R	nizospheres along Living Roots (C3)			
Saturation	` '			Marl Deposit	. ,				f Reduced Iron (C4)	
Water Ma				Hydrogen Su	Ifide Odor	(C1)		Salt Deposi		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)	
☐ Drift Depo	` ,			U Other (Expla	in in Rema	rks)			c Position (D2)	
	or Crust (B4)							✓ Shallow Aq		
☐ Iron Depo	osits (B5) oil Cracks (B6)							☐ Microtopog	raphic Relief (D4)	
Field Observa	` ,							FAC-fleutia	r rest (D3)	
Surface Water		Yes $\bigcirc$	No 💿	Depth (inche	es):					
Water Table P		Yes O	_		•		Wetlau	nd Hydrology Present	t? Yes ○ No •	
Saturation Pre				Depth (inche	•		11 00.0.	ina myanology i resem	i les a les a	
(includes capi	llary fringe)	Yes O		Depth (inche						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										

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