## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 06-Aug-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T160_07		
	gator(s): CTS, AMD		Landform (hi	lside, terrac	ce, hummocks etc.): Flat		
	relief (concave, convex, none): flat		Slope:	% / 2.0			
	gion : Interior Alaska Mountains	l at :	63.36639630		Long.: -148.812494636 Datum: NAD83		
		Lat	03.30039030	01			
	ap Unit Name:			No ○	NWI classification: PSS1B		
Are \	matic/hydrologic conditions on the site typical for this /egetation  , Soil  , or Hydrology  , Soil  , or Hydrology  .  MARY OF FINDINGS - Attach site map sh	significant naturally p nowing sai	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No		le	the Sam	inled Area		
	Hydric Soil Present? Yes   No		Is the Sampled Area within a Wetland? Yes ● No ○				
Rem	Wetland Hydrology Present? Yes   No	0	W	illilli a vv	etiality 165 a 116 a		
VEGI	ETATION -Use scientific names of plants.	List all sp		plot.	Dominance Test worksheet:		
Tre	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1.		0			That are OBL, FACW, or FAC: 4 (A)  Total Number of Dominant		
2.		0			Species Across All Strata:4 (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 Cov	er: <u>0</u>	-		Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species <u>5</u> x 1 = <u>5</u>		
1.	Vaccinium uliginosum	35	<b>✓</b>	FAC	FACW Species 46.1 x 2 = 92.2		
2.	Rhododendron tomentosum	20	✓	FACW	FAC Species <u>81.1</u> x 3 = <u>243.3</u>		
3.	Betula nana	15		FAC	FACU Species 0 x 4 = 0		
4.	Empetrum nigrum	10		FAC	UPL Species		
5.	Vaccinium vitis-idaea	4		FAC	Column Totals: <u>132.2</u> (A) <u>340.5</u> (B)		
6.	Salix pulchra	3	_	FACW			
7.	Picea mariana	2	_ 📙	FACW	Prevalence Index = B/A =2.576_		
8.	Dasiphora fruticosa	1	- 📙	FAC	Hydrophytic Vegetation Indicators:		
9.	Arctous ruber	1	- 📙	FAC	✓ Dominance Test is > 50%		
10.		_	FAC	✓ Prevalence Index is ≤3.0			
Hei	Total Cover: 50% of Total Cover:		% of Total Cove	r: <u>18.2</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Rubus chamaemorus	20	_	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Carex bigelowii			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Carex aquatilis			OBL	be present, unless disturbed or problematic.		
4.	Trichophorum caespitosum			OBL	Plot size (radius, or length x width)		
5.	Eriophorum vaginatum	0.1		FACW	% Cover of Wetland Bryophytes		
6.	Pedicularis labradorica	0.1	-	FACW	(Where applicable)		
7.	Tofieldia coccinea	_		FAC	% Bare Ground		
8.			- 📙		Total Cover of Bryophytes		
		0	-		Hadan bada		
10.	Total Cov				Hydrophytic Vegetation		
					Present? Yes   No		
	50% of Total Cover:	<u>20.6</u> 209	% of Total Cover	: <u>8.24</u>	riesche: les a lies a		

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SOIL Sampling Point: SW13\_T160\_07

Color (m  0-4  4-12  Type: C=Concentration. E  Hydric Soil Indicators:  Histosol or Histel (A1)  Histic Epipedon (A2)	oist)	Color (moist)	<u>%</u> <u>Ty</u>	<u>Loc <sup>2</sup></u>	Hemic Organics Fibric Organics	Remarks
4-12  Type: C=Concentration. D  Hydric Soil Indicators:  Histosol or Histel (A1)						
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Histosol or Histel (A1)	=Depletion. RM=Redu	ıced Matrix <sup>2</sup> Location	n: PL=Pore Lini	ing. RC=Root Cha	nnel. M=Matrix	
` '		Indicators for Pr	oblematic Hyd	dric Soils: <sup>3</sup>		
A Histia Fairesday (A2)		Alaska Color C	nange (TA4)		Alaska Gleyed Without Hu	ue 5Y or Redder
✓ Histic Epipedon (A2)		Alaska Alpine s	swales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox \	With 2.5Y Hue		Other (Explain in Remark	s)
Thick Dark Surface (A1	2)	_				
Alaska Gleyed (A13)		<sup>3</sup> One indicator of and an appropria			nary indicator of wetland hy	ydrology,
Alaska Redox (A14)				•	ESCIIC	
Alaska Gleyed Pores (A	15)	<sup>4</sup> Give details of o	olor change in F	Remarks		
estrictive Layer (if present)	:					
Type: rock					Hydric Soil Present?	? Yes ● No O
Depth (inches): 12						
YDROLOGY						
Vetland Hydrology Indic	ators:				Secondary Indic	cators (two or more are required)
Primary Indicators (any one	is sufficient)				Water Stair	ned Leaves (B9)
Surface Water (A1)		Inundation V	isible on Aerial	Imagery (B7)	Drainage P	atterns (B10)
✓ High Water Table (A2)		Sparsely Veg	etated Concave	Surface (B8)		hizospheres along Living Roots (C3
✓ Saturation (A3)		Marl Deposit	s (B15)			f Reduced Iron (C4)
Water Marks (B1)		Hydrogen Su	lfide Odor (C1)		Salt Deposi	its (C5)
Sediment Deposits (B2	)	Dry-Season \	Water Table (C2	2)	Stunted or	Stressed Plants (D1)
Drift Deposits (B3)		Other (Expla	in in Remarks)		Geomorphi	c Position (D2)
Algal Mat or Crust (B4)					✓ Shallow Aq	uitard (D3)
Iron Deposits (B5)					Microtopog	raphic Relief (D4)
Surface Soil Cracks (B6	)				✓ FAC-neutra	l Test (D5)
ield Observations:						
Surface Water Present?	Yes O No 🗨	Depth (inche	es):			
Water Table Present?	Yes ● No ○	Depth (inche	es): 12	Wetla	nd Hydrology Present	t? Yes 💿 No 🔾
Saturation Present? (includes capillary fringe)	Yes ● No ○	Depth (inche	es): 6			
escribe Recorded Data (str	eam gauge, monitor w	ell, aerial photos, pre	vious inspection	) if available:		
emarks:						

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