## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T146_10			
	gator(s): SLI, EAC		Landform (hillside, terrace, hummocks etc.): Floodplain					
	relief (concave, convex, none): flat		Slope: 0.0		° Elevation: 680			
Subre	gion : Interior Alaska Mountains	Lat ·	63.382581688	 84	Long.: -148.758024719 Datum: WGS84			
	ap Unit Name:		00.002001000	<del>/ -</del>	NWI classification: PSS1E			
	matic/hydrologic conditions on the site typical for this ti	imo of voor	2 Yes	● No ○	(If no, explain in Remarks.)			
		•	y disturbed?		Iormal Circumstances" present? Yes  No			
		-	roblematic?		eded, explain any answers in Remarks.)			
	•							
SUM	MARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No C		la	the Com	upled Area			
	Hydric Soil Present? Yes   No		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes   No	)	WI	tnin a vv	etiand? Tes C No C			
Ren	narks: floodplain of small R2UBH stream at mile 129 o	of Denali Hy	vv.					
			,					
VEGI	<b>ETATION</b> -Use scientific names of plants. Li	ist all spe	ecies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.					Total Number of Dominant			
2.					Species Across All Strata: 4 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	Total Cover				Prevalence Index worksheet:			
6			of Total Cover:		Total % Cover of: Multiply by:			
Sal	bling/Shrub Stratum 50% of Total Cover:			0	OBL Species 13 x 1 = 13			
1.	Dasiphora fruticosa	0.1		FAC	FACW Species 50.1 x 2 = 100.2			
2.	Salix pulchra		<b>✓</b>	FACW	FAC Species 27.1 x 3 = 81.30 FACU Species 0 x 4 = 0			
3.	Salix barclayi			FAC				
4. 5.	Vaccinium uliginosum	^		FAC				
6.					Column Totals: 90.2 (A) 194.5 (B)			
7.					Prevalence Index = B/A = 2.156			
8.					Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
	Total Cover	71.1			Morphological Adaptations <sup>1</sup> (Provide supporting data in			
He	rb Stratum 50% of Total Cover:	6 of Total Cover	: 14.22	Remarks or on a separate sheet)				
1.	Carex aquatilis	10	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Comarum palustre	3		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Rumex arcticus			FAC	be present, unless disturbed or problematic.			
4.	Calamagrostis canadensis	5		FAC	Plot size (radius, or length x width) 10m			
5.	Equisetum variegatum			FACW	% Cover of Wetland Bryophytes			
					(Where applicable)			
7.					% Bare Ground10			
					Total Cover of Bryophytes <u>85</u>			
8.					1			
8. 9.								
8. 9.					Hydrophytic Vegetation			
8. 9.		0 19.1	of Total Cover:	3.82	Hydrophytic Vegetation Present?  Yes  No  No			

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SOIL Sampling Point: SW13 T146 10

Profile Descript	ion: (Describe to	the depth nee	ded to documer	nt the indicator or cor	nfirm the ab	sence of indica	ators)				
Depth		Matrix		Red	dox Featu						
(inches)	Color (mo			Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-8	5YR	3/1	100					Fibric Organics	Fair amount of very fine sand and silt mixe		
8-12	7.5YR	3/1	100					Very Fine Sandy Loam	A fair amount of organic matter		
								-			
								-			
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduced	Matrix <sup>2</sup> Location	ı: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		I	ndicators for Pr	oblemati	c Hydric Sc	oils:				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4) <b>4</b>		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)	Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remar	ks)				
Thick Dark	k Surface (A12)	)	,	3.0	b 4 - 6						
Alaska Gle	eyed (A13)			one indicator of and an appropriat				nary indicator of wetland lesent	nydrology,		
Alaska Red	` ,			Give details of co	olor chang	o in Domark					
☐ Alaska Gle	eyed Pores (A1	5)		- Give details of co	nor criarig	e iii Keiliaik					
Restrictive Laye	er (if present):										
Type:								<b>Hydric Soil Present</b>	:? Yes • No O		
Depth (inch	nes):										
Remarks:											
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Ind	icators (two or more are required)		
Primary Indica	ntors (any one	s sufficient)						Water Sta	ined Leaves (B9)		
Surface W	Vater (A1)			☐ Inundation Vi	isible on A	erial Imager	y (B7)	☐ Drainage I	Patterns (B10)		
✓ High Water Table (A2)				Sparsely Vege	etated Cor	ncave Surfac	e (B8)	Oxidized R	Rhizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	s (B15)			Presence of	of Reduced Iron (C4)		
Water Ma	ırks (B1)			Hydrogen Sul	lfide Odor	(C1)		Salt Depos	sits (C5)		
	Deposits (B2)			Dry-Season V					r Stressed Plants (D1)		
✓ Drift Depo	,			Other (Explai	n in Rema	rks)		'	ic Position (D2)		
	or Crust (B4)							_	quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)						1	✓ FAC-neutra	al Test (D5)		
Field Observa		Yes 〇	No (	Dth (inche	- > -						
Surface Water				Depth (inche	•		,,		🕤 🔿		
Water Table F		Yes 💿		Depth (inche	s): 7		Wetlar	nd Hydrology Preser	nt? Yes • No O		
		Yes 💿	No O	Depth (inche	s): 4						
Saturation Pre (includes capi	llary fringe)										
(includes capi		am gauge, r	monitor well, a	aerial photos, prev	/ious insp€	ection) if ava	ilable:				
(includes capi		am gauge, r	monitor well, a	aerial photos, prev	vious inspe	ection) if ava	ilable:				
(includes capi Describe Recor Remarks:	rded Data (stre			aerial photos, prev		-	ilable:				
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