WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	_ Sampling Date:	01-Aug-13
Applicant/Owner: Alaska Energy Authority		Samp	oling Point: S	W13_T145_08
Investigator(s): SLI, EAC	Landform (hills	side, terrace, hummocks etc.):	Swale	
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation: 73	38	
Subregion : Interior Alaska Mountains	Lat.: 63.40115571	Long.: -148.64526	69036 C	atum: WGS84
Soil Map Unit Name:		NWI class	sification: PEM1	F
	nificantly disturbed?	No (If no, explain Are "Normal Circumstances	s" present? Yes	• No ()
Are Vegetation , Soil , or Hydrology natu	urally problematic?	(If needed, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point	locations, transects, impo	ortant features,	etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●		Is the Sampled Area within a Wetland?	Yes \bullet No \bigcirc
Remarks: shails aloge and aquatic mo	es in this la	wland hawfe		

Remarks: snails, algae, and aquatic moss in this lowland hgwfs

VEGETATION - Use scientific names of plants. List all species in the plot.

Tree Stratum % Cover Species? Status Number of Dominant Species			Absolut	e Dominant	Indicator	Dominance Test worksheet:
1. 0 0 0 Total Number of Dominant 3 3 3 3 3 3 1 3 1 3 1 3 1 1 3 1 1 3 1 1 1 1 4 0 1 1 1 1 4 0 1 1 1 1 4 1	Tre	e Stratum				
2. 0 0 Species Across AI Strata: 3 (b) 3. 0 0 That Are OBL, FACW, or FAC: 100.0% (AB) 5. 0 0 That Are OBL, FACW, or FAC: 100.0% (AB) 5. 0 0 0 That Are OBL, FACW, or FAC: 100.0% (AB) 5. 0 0 0 That Are OBL, FACW, or FAC: 00.0% (AB) 7. 0 0 0 FACW FACW FACW Species 0.1 × 2 = 0.200 7. 0 0 FACW FACW Species 0.1 × 2 = 0.200 8. 0 0 FACW FACW Species 0.1 × 2 = 0.200 7. 0 0 FACW FACU Species 0.1 × 2 = 0.200 8. 0 0 Column Totals: 3.5.2 (A) 3.5.3 (B) 9. 0 0 Fotal Cover: 0.02 Prevalence Index Is \$3.0	1.		0	 		That are OBL, FACW, or FAC: <u>3</u> (A)
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4.						
5. 0 0 Prevalence Index worksheet: Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 1. Andromeda polifolia 0.1 FACW FACW Species 0.1 2 = 0.200 2. 0 FACW Species 0.1 2 = 0.200 3. 0 FACW Species 0.1 2 = 0.200 4. 0 FACW Species 0.1 2 = 0.200 5. 0 FACW Species 0.1 2 = 0.200 6. 0 FACU Species 0.14 = 0 0 7. 0 FACU Species 0.15 = 0 0 6. 0 Column Totals: 35.2 (A) 35.3 (B) 9. 0 0 Forvalence Index is 3.0 Forvalence Index is 3.0<						
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50% of Total Cover: <u>17.55</u> 20% of Total Cover: <u>7.02</u> Present? Yes • No	-		35.1	_		Vegetation
		50% of Total Cover: <u>1</u>	-		7.02	Present? Yes \odot No \bigcirc
Remarks: aquatic moss scorpoides scorpoidium, andpol on small hummocks.	Rem	arks: aquatic moss scorpoides scorpoidium. and pol	on small	nummocks.		

Depth	Matrix			onfirm the absence of ind dox Features			
(inches)	Color (moist)	%	Color (moist)	<u>% Type¹</u>	Loc 2	Texture	Remarks
					,		
		,			,		
			,		,		
¹ Type: C=Cond	centration. D=Depletio	on. RM=Reduc	ced Matrix ² Location	n: PL=Pore Lining. R	C=Root Chan	nel. M=Matrix	
Hydric Soil In	dicators:		Indicators for P	roblematic Hydric S	Soils: ³		
Histosol or	Histel (A1)		Alaska Color C	hange (TA4) ⁴		Alaska Gleyed Without Hue	5Y or Redder
Histic Epipe	edon (A2)		Alaska Alpine s	swales (TA5)	_	Underlying Layer	
Hydrogen S	Sulfide (A4)		Alaska Redox V	With 2.5Y Hue		Other (Explain in Remarks)	
	Surface (A12)		3 One indicator of	f hydrophytic ypgatat	ion one prima	ary indicator of wetland hyd	heleny
Alaska Gley				te landscape position			irology,
Alaska Redo	()		4 Give details of c	color change in Rema	rkc		
Alaska Gley	ed Pores (A15)						
Restrictive Layer	(if present):						
Type: froze						Hydric Soil Present?	Yes 🔍 No 🔾
Depth (inche	es): 24				1		
Remarks:	oil due to hydrophytic	vegetation ar	nd standing water. pr	obe to determine de	oth of restrictiv	ve layer.	
Remarks: assume hydric so		vegetation ar	nd standing water. pr	obe to determine de	oth of restricti	ve layer.	
Remarks: assume hydric so HYDROLOC	GY	vegetation ar	nd standing water. pr	robe to determine de	oth of restricti		
Remarks: assume hydric so HYDROLOC Wetland Hydro	GY ology Indicators:		nd standing water. pr	robe to determine de	oth of restricti	_Secondary Indica	tors (two or more are required)
Remarks: assume hydric so HYDROLOC Wetland Hydro Primary Indicato	GY ology Indicators: ors (any one is sufficie					Secondary Indica	d Leaves (B9)
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Remarks: assume hydric so HYDROLOO Wetland Hydro Primary Indicato I Surface Wa High Water	GY ology Indicators: ors (any one is sufficie ater (A1) r Table (A2) (A3)		Inundation V Sparsely Veg	/isible on Aerial Imag getated Concave Surfa ts (B15)	ery (B7)	Secondary Indica	d Leaves (B9) terns (B10) zospheres along Living Roots (C3) Reduced Iron (C4)
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lowland swale connecting ponds. 6in surface water over organic mat w marl deposits, iron floc, and biogenic sheen. punch through mat to active layer at 24in bgs.