WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T112_06		
Investigator(s): SLI, SCB		Landform (hill	side, terrac	e, hummocks etc.): Toeslope		
Local relief (concave, convex, none): tussocks		Slope:	%/ 2.2	2 ° Elevation: 727		
Subregion : Interior Alaska Mountains	Lat.:	62.794094443	3	Long.: -148.277992845 Datum: NAD83		
Soil Map Unit Name:				NWI classification: PSS1E		
Are Vegetation , Soil , or Hydrology n SUMMARY OF FINDINGS - Attach site map show	ignifican naturally ving sa	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes No		Is the Sampled Area				
Hydric Soil Present? Yes		within a Wetland? Yes \odot No \bigcirc				
Wetland Hydrology Present? Yes No Remarks: disturbed site. hummocks w dead vegetation, fror						
suspect small fire in area. immediately downslope VEGETATION - Use scientific names of plants. Lis	st all sp Absolut	e Dominant	plot. Indicator	Dominance Test worksheet:		
Tree Stratum 1.	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
2				Total Number of Dominant		
2	0			Species Across All Strata:3 (B)		
4	0	- 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	0	- 🗌				
Total Cover:	0			Prevalence Index worksheet:		
		– % of Total Cover:	0	Total % Cover of: Multiply by:		
	0 20			OBL Species 3.1 x 1 = 3.1		
1. Vaccinium uliginosum	20		FAC	FACW Species 10.2 $\times 2 = 20.40$		
2. Salix pulchra	10		FACW	FAC Species $32 \times 3 = 96$ FACU Species $1 \times 4 = 4$		
3. Betula nana	10		FAC			
4. Salix reticulata	2		FAC			
5. Picea glauca			FACU	Column Totals: <u>46.3</u> (A) <u>123.5</u> (B)		
 Andromeda polifolia (IAM) 7. 	0	-	OBL	Prevalence Index = B/A = 2.667		
8	0	- -		Hydrophytic Vegetation Indicators:		
9.	0	-		✓ Dominance Test is > 50%		
10.	0			✓ Prevalence Index is ≤ 3.0		
Total Cover:			Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover:	22 20	0% of Total Cover	8.8	Remarks or on a separate sheet)		
1. Eriophorum angustifolium	2		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Equisetum variegatum	0.1		FACW	¹ Indicators of hydric soil and wetland hydrology must		
3. Carex aquatilis	0.1		OBL	be present, unless disturbed or problematic.		
4. Carex membranacea			FACW	Plot size (radius, or length x width)		
5. 6.				% Cover of Wetland Bryophytes		
7		-				
8.		-				
9.	0	-		Total Cover of Bryophytes <u>30</u>		
10.	0			Hydrophytic		
Total Cover:	2.3			Vegetation		
50% of Total Cover:			0.46	Present? Yes • No O		

Remarks: veg mostly on mounds, lots of exposed organic soil in troughs, with low cover of sedges and equis etum. Scattered dead dwarf spruce. Total herb cover <5%, thus no herbs considered dominant.

SOI	L

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features											
Depth (inches)	Depth						Loc ²	Texture	Remarks		
0-4	2.5YR	3/4	<u> </u>	Color (moist)	<u>%</u>	Type ¹	LOC	Hemic Organics	Keindriks		
4-8		2/1	100					Hemic Organics			
					-			-			
6-12			100					fine gravels to cobbles	rounded to sub-rounded		
12-14	2.5Y	3/2	100					Silt Loam	w coarse sand-fine gravels		
					-	-					
						-					
¹ Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³											
	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine sv		,		Underlying Layer			
	Sulfide (A4)			Alaska Redox W	•			Other (Explain in Remarks)			
	Surface (A12)										
Alaska Gle	. ,							nary indicator of wetland h	ydrology,		
🗌 Alaska Red				and an appropriate	e lanusca	be position	must be pre	esent			
🗌 Alaska Gle	yed Pores (A15	5)		⁴ Give details of co	lor chang	e in Remar	ks				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inch	nes):										
Remarks:											
disturbed site											
	GV										
HYDROLO Wetland Hydr		tore						Cocondon/ Indi	sators (two or more are required)		
-	tors (any one is		·)						cators (two or more are required) ned Leaves (B9)		
Surface W		<i>b</i> ournelern	.,	Inundation Vi	sible on A	erial Image	erv (87)	Drainage Patterns (B10)			
High Wate	. ,			Sparsely Vege				Oxidized Rhizospheres along Living Roots (C3)			
Saturation	n (A3)			Marl Deposits			()	Presence of Reduced Iron (C4)			
🗌 Water Ma				Hydrogen Sul	• •	(C1)		Salt Deposits (C5)			
Sediment	Deposits (B2)			Dry-Season W				Stunted or Stressed Plants (D1)			
Drift Depo	osits (B3)			Other (Explain	n in Rema	rks)		Geomorphic Position (D2)			
🗌 Algal Mat	gal Mat or Crust (B4)							Shallow Aquitard (D3)			
Iron Depo	. ,							Microtopographic Relief (D4)			
✓ Surface Se	oil Cracks (B6)							✓ FAC-neutra	ll Test (D5)		
Field Observa	ations:	G	\sim								
Surface Water	r Present?			Depth (inches	5): 2						
Water Table P	Present?	Yes 🖲	\sim No \bigcirc	Depth (inches	5): 1		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre (includes capi		Yes 🖲	No O	Depth (inches	s): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Dama											
Remarks: describing inter-hummocks, sparsely vegetated w standing water/near surface water table.											
describing inter	r-nummocks, s	barsely veg	jetated w st	anding water/near su	rrace wat	er table.					