WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12								
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T46_01								
Investigator(s): SLI, KMK Lincity Additional Landform (hillside, terrace, hummocks etc.): Hillside												
Local relief (concave, convex, none): flat		Slope:	%/ 26.5									
Subregion : Interior Alaska Mountains	lat: 6			Long.: -147.646170836 Datum: NAD83								
	Lat	02.002037992	.4									
Soil Map Unit Name:				NWI classification: Upland								
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.												
	the Sam	pled Area										
Hydric Soil Present? Yes No @												
Wetland Hydrology Present? Yes No within a Wetland? Yes No Remarks: steep northern aspect slope with exposed blocky talus. adjacent community tall closed alnus (stca). Yes No Image: Steep northern aspect slope with exposed blocky talus. adjacent community tall closed alnus (stca).												
VEGETATION - Use scientific names of plants. L			•	Dominance Test worksheet:								
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.	0			That are OBL, FACW, or FAC: (A)								
2.	0			Total Number of Dominant Species Across All Strata: 5 (B)								
3.	0			Percent of dominant Species								
4.	0			That Are OBL, FACW, or FAC: 80.0% (A/B)								
5.	0			Prevalence Index worksheet:								
Total Cover	:			Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:	0 20% 0	of Total Cover:	0	OBL Species $0 \times 1 = 0$								
1. Rhododendron tomentosum	10	\checkmark	FACW	FACW Species $20 \times 2 = 40$								
2. Vaccinium vitis-idaea	10		FAC	FAC Species <u>55</u> x 3 = <u>165</u>								
3. Empetrum nigrum	5		FAC	FACU Species <u>14</u> x 4 = <u>56</u>								
4. Cassiope tetragona	5		FACU	UPL Species 0 x 5 = 0								
5. Betula glandulosa	25	\checkmark	FAC	Column Totals: <u>89</u> (A) <u>261</u> (B)								
6. Salix pulchra	10	\checkmark	FACW									
7. Alnus viridis	5		FAC	Prevalence Index = B/A = 2.933								
8. Loiseleuria procumbens	3		FACU	Hydrophytic Vegetation Indicators:								
9. Vaccinium uliginosum	10		FAC	✓ Dominance Test is > 50%								
10. Spiraea stevenii	1		FACU	✓ Prevalence Index is \leq 3.0								
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover	: 16.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1. Anthoxanthum monticola ssp. alpinum	5	\checkmark	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	0			¹ Indicators of hydric soil and wetland hydrology must								
3				be present, unless disturbed or problematic.								
4.	0			Plot size (radius, or length x width) <u>10m</u>								
5	0			% Cover of Wetland Bryophytes								
6				(Where applicable)								
7				% Bare Ground								
8				Total Cover of Bryophytes30								
9												
10	0			Hydrophytic								
Total Cover 50% of Total Cover:		of Total Cover	1	Vegetation Present? Yes No								
Remarks: trace bisoff, 15% lichens. antmon identical to	that collecte	ed in many loo	cations in ju	ine.								

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features								
Depth (inches)		atrix				. 2	Texture	Remarks
	Color (moi	st) <u>%</u> 100	Color (moist)	%	Type ¹	<u>Loc</u> ²	Fibric Organics	Reliaiks
0-14.5								
14.5-15							Hemic Organics	
	·		·					
				-				
¹ Type: C=Cor	ncentration. D=	Depletion. RM=Red	uced Matrix ² Location		-		nnel. M=Matrix	
Hydric Soil I	ndicators:		Indicators for Pro	oblematio	Hydric So	oils: ³		
Histosol or	r Histel (A1)		Alaska Color Ch	ange (TA4	4 +)		Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epip	edon (A2)		Alaska Alpine sv	wales (TAS	5)		Underlying Layer	
Hydrogen	Sulfide (A4)		🗌 Alaska Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	s)
Thick Dark	k Surface (A12)							
🗌 Alaska Gle	eyed (A13)		³ One indicator of and an appropriate				nary indicator of wetland h	ydrology,
🗌 Alaska Red	dox (A14)				•	•		
🗌 Alaska Gle	eyed Pores (A15)	⁴ Give details of co	lor change	e in Remark	<s< td=""><td></td><td></td></s<>		
Restrictive Laye	er (if present):							
Type:							Hydric Soil Present	? Yes 🔾 No 🖲
Depth (incl	nes):							
Remarks:								
	edrock) No ind	ications of saturatio	on, thus does not meet	A1 or A2				
. 0.000. 00 20 (0								
HYDROLO	-							
-	rology Indicat							ators (two or more are required)
	tors (any one is	sufficient)						ned Leaves (B9)
Surface W			Inundation Vi					atterns (B10)
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)					ce (B8)		nizospheres along Living Roots (C3)
	Saturation (A3)							f Reduced Iron (C4)
	ter Marks (B1) Hydrogen Sulfide Odor (C1)						Salt Deposi	
Sediment	ment Deposits (B2) Dry-Season Water Table (C2)						Stunted or	Stressed Plants (D1)
·	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)							
Algal Mat	or Crust (B4)						Shallow Aq	uitard (D3)
Iron Depo	osits (B5)						_	raphic Relief (D4)
Surface S	oil Cracks (B6)						✓ FAC-neutra	l Test (D5)
Field Observa	ations:		、 、					
Surface Water	r Present?	Yes 🔿 No 🖲	Depth (inches	5):				
Water Table F	Present?	Yes 🔿 No 🖲	Depth (inches	5):		Wetlaı	nd Hydrology Presen	t? Yes 🔾 No 🖲
Saturation Pre		Yes 🔿 No 🖲						
(includes capi				,				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:								
Pomarke								
Remarks:	drology indicat	~						
по weuana пус	drology indicato	5						