WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Matanusk	ca-Susitna Borough Sampling Date: 21-Jun-12			
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T32_01			
	igator(s): JGK		L	Landform (hillside, terrace, hummocks etc.): Mountainslope					
Local	relief (concave, convex, none): hummocky			Slope: % / 14.8 ° Elevation: 109					
	gion: Interior Alaska Mountains	l at	. e	62.7618481044 Long.: -148.301165761 Datum: NAD83					
	ap Unit Name:	Lui		2.701040104	-				
	-			NWI classification: PSS1/EM1B Yes No (If no, explain in Remarks.)					
Are '	imatic/hydrologic conditions on the site typical for this vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significa naturall	antly y pro	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ aded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No			lo.	the Com	wlad Area			
	Hydric Soil Present? Yes ● No	\supset		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No)		Wi	tnin a w	etiand? Tes © No C			
	earks: ETATION - Use scientific names of plants. L	ist all s	spec	ies in the I	olot.				
		Absolu		Dominant		Dominance Test worksheet:			
	ee Stratum	% Cov		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.			0		-	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: 75.0% (A/B)			
5.			0	Ш		Prevalence Index worksheet:			
_	Total Cove			of Total Causes		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	02	20% 0	of Total Cover:	0	OBL Species x 1 =			
1.	Salix reticulata	_	5		FAC	FACW Species0 x 2 =0			
2.	Dryas ajanensis		15	✓	UPL	FAC Species			
3.	Vaccinium uliginosum		20_	✓	FAC	FACU Species 2 x 4 = 8			
4.	,		15	~	FAC	UPL Species <u>15</u> x 5 = <u>75</u>			
5.	, and the second		5		FAC	Column Totals: <u>92</u> (A) <u>308</u> (B)			
6.			0			Prevalence Index = B/A = 3,348			
7.			0						
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.	7116		0			☐ Prevalence Index is ≤3.0			
	Total Cove		0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	rb Stratum 50% of Total Cover:		_						
1.	Bistorta plumosa		2		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
1. 2.	Bistorta plumosa Carex bigelowii	3	80	□	FACU	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must			
1. 2. 3.	Bistorta plumosa Carex bigelowii	5	0			Problematic Hydrophytic Vegetation ¹ (Explain)			
1. 2. 3. 4.	Bistorta plumosa Carex bigelowii		0			Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must			
1. 2. 3. 4. 5.	Bistorta plumosa Carex bigelowii		0			Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes 0			
1. 2. 3. 4. 5. 6.	Bistorta plumosa Carex bigelowii		0 0 0 0		FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
1. 2. 3. 4. 5. 6. 7.	Bistorta plumosa Carex bigelowii		0			Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
1. 2. 3. 4. 5. 6. 7. 8.	Bistorta plumosa Carex bigelowii		0 0 0 0 0		FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
1. 2. 3. 4. 5. 6. 7. 8.	Bistorta plumosa Carex bigelowii		0 0 0 0 0		FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes 40			
1. 2. 3. 4. 5. 6. 7. 8.	Bistorta plumosa Carex bigelowii		0 0 0 0 0		FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			

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SOIL Sampling Point: SW12_T32_01

Profile Descripti	•		ded to docume	ent the indicator or co			ators)				
Depth		atrix			dox Featu		2		Possession		
(inches)	Color (mois	st)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	_Loc_2	Texture Cuspuise	Remarks		
0-8								Fibric Organics			
8-10								Sapric Organics	5% silty loam		
10-14					_			Sapric Organics	75% cobble 2 -5 inches and gravel		
					_						
-				-							
¹Type: C=Cor	ncentration. D=I	Depletion, I	RM=Reduce	d Matrix ² Location	n: PL=Pore	 e Linina, RC	=Root Cha	nnel. M=Matrix	-		
Hydric Soil I		э ср.сс.о									
I				Indicators for Problematic Hydric Soils: Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
☐ Histosol or Histel (A1) ✓ Histic Epipedon (A2)				☐ Alaska Alpine swales (TA5) ☐ Alaska Alpine swales (TA5) ☐ Underlying Layer							
	Sulfide (A4)			Alaska Redox With 2.5Y Hue Other (Explain in Remarks)							
	Surface (A12)				With 2.51 1	ide			,		
Alaska Gle								nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te landscap	e position n	nust be pre	esent			
	yed Pores (A15))		⁴ Give details of c	olor change	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
Remarks:											
soil saturated											
water pooling a	t 9 inches dept	า									
HYDROLO	GY										
Wetland Hydi		ors:						_Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)							ned Leaves (B9)		
☐ Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage F	Patterns (B10)		
☐ High Wate	High Water Table (A2)				etated Con	cave Surfac	e (B8)	Oxidized Rhizospheres along Living Roots (C3)			
✓ Saturation	n (A3)			Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dry-Season	Water Table	e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ac	quitard (D3)		
Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa			(
Surface Water	Present?	Yes O		Depth (inche	es):						
Water Table P	resent?	Yes 💿	No \bigcirc	Depth (inche	es): 9		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capil		Yes	No	Depth (inche	es): 1						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Remarks:											
water pooling a	at 9 inches dept	h									

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