## WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Jun-12			
nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T27_07			
		andform (hillside, terrace, hummocks etc.): Flat					
		Slope:		5 ° Elevation: 785			
	l at ·	62 857538160		Long.: -148.652345683 Datum: NAD83			
		02.037330108	<del>74</del>				
		0 V	■ N= ○	NWI classification: PSS1/EM1E			
egetation , Soil , or Hydrology egetation , Soil , or Hydrology  MARY OF FINDINGS - Attach site map sho	significantly naturally pr	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No ceded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No ceded, explain any answers in Remarks.)			
,		ls	the Sam	pled Area			
yana aan raaann		within a Wetland? Yes   No					
7 7	)	***	a **	etiana:			
•	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species			
				That are OBL, FACW, or FAC:3(A)			
				Total Number of Dominant Species Across All Strata: 3 (B)			
				Percent of dominant Species			
				That Are OBL, FACW, or FAC: 100.0% (A/B)			
				Prevalence Index worksheet:			
Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:			
ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 45 x 1 = 45			
Retula nana	20	<b>~</b>	FAC	FACW Species 20 x 2 = 40			
Manadal an Palana		<u></u>	FAC	FAC Species 70 x 3 = 210			
Empetrum niarum			FAC	FACU Species 0 x 4 = 0			
	5		OBL	UPL Species 0 x 5 = 0			
Rhododendron tomentosum	5		FACW	Column Totals: <u>135</u> (A) <u>295</u> (B)			
	0						
	٥			Prevalence Index = B/A = 2.185			
	0			Hydrophytic Vegetation Indicators:			
	0			✓ Dominance Test is > 50%			
	0			Prevalence Index is ≤3.0			
		6 of Total Cover	: 16	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
Carex capillaris			FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
<u> </u>	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
			OBL	be present, unless disturbed or problematic.			
			FACW	Plot size (radius, or length x width)			
				% Cover of Wetland Bryophytes 40			
				(Where applicable)			
				% Bare Ground 0			
				Total Cover of Bryophytes			
	0			Hydrophytic			
Total Cove	r: <u>55</u>			Vegetation Present? Yes ● No ○			
	ant/Owner: Alaska Energy Authority gator(s): JGK relief (concave, convex, none): hummocky gion: Interior Alaska Mountains up Unit Name: matic/hydrologic conditions on the site typical for this to regetation	ant/Owner: Alaska Energy Authority gator(s): JGK elief (concave, convex, none): hummocky gion: Interior Alaska Mountains	ant/Owner: Alaska Energy Authority gator(s): JGK	ant/Owner: Alaska Energy Authority gator(s): JGK			

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SOIL Sampling Point: SW12\_T27\_07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)  Matrix Redox Features									
Depth	Matrix	— —				2		Parriar I.	
(inches) Color (mo	oist)	<u>%</u> Co	olor (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
0-14							Fibric Organics		
							Hemic Organics		
17 00			2						
<sup>1</sup> Type: C=Concentration. D	=Depletion. I						nnel. M=Matrix		
Hydric Soil Indicators:		Ir	ndicators for Pr		4	oils:	1		
Histosol or Histel (A1)			Alaska Color Ch		•		Alaska Gleyed Without Hu Underlying Layer	ue 5Y or Redder	
Histic Epipedon (A2)			☐ Alaska Alpine s	-	•		, , ,	۵۱	
Hydrogen Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	s)	
Thick Dark Surface (A12	)	3	One indicator of	hydronhyt	ic vegetation	n one nrim	nary indicator of wetland h	vdrology	
Alaska Gleyed (A13)			and an appropriat					ydrology,	
Alaska Redox (A14)		4	Give details of co	olor change	e in Remark	c			
☐ Alaska Gleyed Pores (A1	-		GIVE details of et	nor charige	z III Kemark	,			
Restrictive Layer (if present):									
Type:							Hydric Soil Present	? Yes ● No ○	
Depth (inches):									
HYDROLOGY									
Wetland Hydrology Indic	ators:						Secondary Indic	cators (two or more are required)	
Primary Indicators (any one	is sufficient)							ned Leaves (B9)	
Surface Water (A1)		1	☐ Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage P	atterns (B10)	
✓ High Water Table (A2)		I	Sparsely Veg		_		Oxidized RI	nizospheres along Living Roots (C3)	
✓ Saturation (A3)		I	Marl Deposits			` '	Presence of	f Reduced Iron (C4)	
☐ Water Marks (B1)		I	Hydrogen Su	lfide Odor	(C1)		Salt Deposi	its (C5)	
Sediment Deposits (B2)		1	Dry-Season V				Stunted or	Stressed Plants (D1)	
☐ Drift Deposits (B3)		1	Other (Explai	n in Rema	rks)		Geomorphi	c Position (D2)	
Algal Mat or Crust (B4)							Shallow Aq	uitard (D3)	
☐ Iron Deposits (B5)							Microtopog	raphic Relief (D4)	
Surface Soil Cracks (B6)	)						<b>✓</b> FAC-neutra	l Test (D5)	
Field Observations:									
Surface Water Present?	Yes 🔾	No 🖭	Depth (inche	s):					
Water Table Present?	Yes 💿	No $\bigcirc$	Depth (inche	s): 1		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Present?	Yes	No O	Depth (inche	e). U					
(includes capillary fringe)			. `						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
incinarios.									

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