## WETLAND DETERMINATION DATA FORM - Alaska Region

	/Site: Susitna-Watana Hydroelectric Project	B0	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T162_03		
nvesti	gator(s): WAD, RWM	side, terrac	e, hummocks etc.): Hillside				
_ocal r	elief (concave, convex, none): planar		Slope:	%/ 8.7	° Elevation: 157		
Subrec	jion : Interior Alaska Mountains	53.126998400	4	Long.: -148.10533304 Datum: NAD83			
-	up Unit Name:			<u> </u>	NWI classification: Upland		
		ma of yoor		• No ()			
Are V Are V	regetation, Soil, or Hydrology	significantly naturally pro	v disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)		
SUMN	MARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No	)	_				
	Hydric Soil Present? Yes O No 🤄				npled Area		
	Wetland Hydrology Present? Yes O No G		wi	thin a W	/etland? Yes $\bigcirc$ No $\bigcirc$		
Rema	arks: planar slope mostly continuous vegetation mat.						
	ETATION - Use scientific names of plants. L	ist all spe Absolute % Cover		olot. Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1.		0		otutuo	That are OBL, FACW, or FAC: (A)		
2.		·			Total Number of Dominant		
3.					Species Across All Strata: <u>2</u> (B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0					
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0			
-					FACW Species $45 \times 2 = 90$		
	Salix polaris	45		FACW	FAC Species $38 \times 3 = 114$		
2. 3.	Dryas ajanensis	- <u>5</u> 0		UPL	FACU Species $18 \times 4 = 72$		
3. 4.					UPL Species $8 \times 5 = 40$		
4. 5.							
6.		· · ·			Column Totals: <u>109</u> (A) <u>316</u> (B)		
7.		0			Prevalence Index = B/A = 2.899		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			Dominance Test is > 50%		
		0	$\square$		✓ Prevalence Index is $\leq 3.0$		
	Total Cover						
1		50			Marphalagical Adaptations <sup>1</sup> (Dravida supporting data in		
Her	b Stratum50% of Total Cover:		of Total Cover:	10	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
			of Total Cover:	 FAC	<ul> <li>Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>		
1.	b Stratum 50% of Total Cover:	<u>25</u> 20% <u>35</u>			Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
1.	b Stratum       50% of Total Cover:          Carex microchaeta	<u>25</u> 20% <u>35</u> <u>2</u> 3		FAC	Remarks or on a separate sheet)		
1. 2.	b Stratum       50% of Total Cover:         Carex microchaeta	25 20% $35$ $2$ $3$		FAC UPL	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
1. 2. 3.	b Stratum       50% of Total Cover:          Carex microchaeta	25 20% 35 2 2 3 2 3 2 3 2 11		FAC UPL FACU	Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Plot size (radius, or length x width)		
1. 2. 3. 4. 5.	b Stratum       50% of Total Cover:         Carex microchaeta	25 20% 35 2 3 2 3 2 11		FAC UPL FACU FAC	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
1. 2. 3. 4. 5.	b Stratum       50% of Total Cover:         Carex microchaeta	25 20% 35 2 3 2 3 2 11		FAC UPL FACU FAC FAC	Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
1. 2. 3. 4. 5. 6.	b Stratum       50% of Total Cover:         Carex microchaeta	$\begin{array}{cccc} 25 & 20\% \\ 35 \\ 2 \\ 3 \\ 2 \\ 3 \\ 2 \\ 11 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $		FAC UPL FACU FAC FAC UPL	Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes (Where applicable)		
1. 2. 3. 4. 5. 6. 7.	b Stratum       50% of Total Cover:	$\begin{array}{cccc} 25 & 20\% \\ 35 \\ 2 \\ 3 \\ 2 \\ 3 \\ 2 \\ 11 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $		FAC UPL FACU FAC FACU UPL UPL	Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Plot size (radius, or length x width)       10m         % Cover of Wetland Bryophytes		
1. 2. 3. 4. 5. 6. 7. 8.	b Stratum 50% of Total Cover:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		FAC UPL FACU FAC UPL UPL FAC	Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
1. 2. 3. 4. 5. 6. 7. 8. 9.	b Stratum       50% of Total Cover:          Carex microchaeta	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		FAC UPL FACU FAC UPL UPL FAC FACU	Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes       (Where applicable)         % Bare Ground		

		he depth nee <b>latrix</b>	eded to docur	ocument the indicator or confirm the absence of indicators) <b>Redox Features</b>						
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2			100					Fibric Organics		
2-16	10YR	3/3	100					Sand		
<sup>1</sup> Type: C=Co	ncentration. D=	Depletion.	RM=Reduc	ed Matrix <sup>2</sup> Location		-		nnel. M=Matrix		
Hydric Soil I	indicators:			Indicators for Pro	oblemati	c Hydric S	oils: <sup>3</sup>			
Histosol o	r Histel (A1)			Alaska Color Ch	ange (TA	4) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)			Alaska Alpine s		-		Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	s)	
	k Surface (A12)			<sup>3</sup> One indicator of	bydrophyl	tic vegetatic	on one nrim	nary indicator of wetland h	vdrology	
	eyed (A13)			and an appropriat					yurology,	
Alaska Re				<sup>4</sup> Give details of co	olor chang	e in Remarl	ks			
АІаѕка Gie	eyed Pores (A15	)								
Restrictive Lay	er (if present):									
Туре:								Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (incl	hes):									
Remarks:										
no hydric soil i	ndicators observ	ed								
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:							cators (two or more are required)	
	ators (any one is	sufficient)							ned Leaves (B9)	
	Vater (A1)			Inundation Vi		-			atterns (B10)	
	er Table (A2)			Sparsely Vege		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposits	. ,				f Reduced Iron (C4)	
Water Ma				Hydrogen Sul				Salt Depos		
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)	
Drift Dep				Other (Explai	n in Rema	rks)			ic Position (D2)	
	or Crust (B4)							_	uitard (D3) Iraphic Relief (D4)	
	Iron Deposits (B5) Surface Soil Cracks (B6)							✓ FAC-neutra		
Field Observa	. ,									
Surface Wate		$_{\sf Yes}$ $\bigcirc$	No 🖲	Depth (inche	s):					
Water Table F		-	No 🖲				Wetlar	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre				Depth (inche			T CLIL.	iu riyurology i rese		
(includes capi	illary fringe)		No 🖲	Depth (inche						
Describe Recor	rded Data (strea	m gauge, I	monitor we	ell, aerial photos, prev	<i>i</i> ous inspe	ection) if ava	ailable:			
Demenden										
Remarks:										