## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Β	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	02-Jul-13	
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW1	3_T139_03	
nvestigator(s): WAD, BAB		Landform (hil	lside, terrac	e, hummocks etc.): Gulch or Gully		
Local relief (concave, convex, none): concave		Slope: 1.7	%/ 1.0	elevation: 459		
Subregion : Southcentral Alaska		62.82254827			m: WGS84	
	Lat	52.02254027				
Soil Map Unit Name:			• No ()	NWI classification: PSS4/3B		
Are Vegetation , Soil , or Hydrology	significantly naturally pr wing sam	v disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● eded, explain any answers in Remarks.) s, transects, important features, etc	No () C.	
Hydrophytic Vegetation Present? Yes  No	_	le	the Sam	pled Area		
Hydric Soil Present? Yes 🖲 No 🤇						
Wetland Hydrology Present? Yes 🖲 No 🤇	$\supset$	w	ithin a W			
Remarks: trough at the crest of ridge. phototime 14,28 photo num 16 and 17 VEGETATION - Use scientific names of plants. L	ist all spe	cies in the	plot.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4	4 (A)	
1. Picea mariana	20	$\checkmark$	FACW	Total Number of Dominant	<u>r</u> (//)	
2	0			Species Across All Strata:	1(B)	
3	0			Percent of dominant Species		
4	0			That Are OBL, FACW, or FAC: 100.	.0% (A/B)	
5	0			Prevalence Index worksheet:		
Total Cove	r:			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	10 20%	of Total Cover	4	OBL Species x 1 =	2	
1. Picea mariana	25	$\checkmark$	FACW	FACW Species 80 x 2 =	160	
2. Ledum decumbens	25	$\checkmark$	FACW	FAC Species 30 x 3 =	90	
3. Empetrum nigrum	15		FAC	FACU Species x 4 =	0	
4. Chamaedaphne calyculata	10		FACW	UPL Species x 5 =	0	
5. Vaccinium uliginosum	10		FAC	Column Totals: <u>112</u> (A)	252 (B)	
6. Betula nana	5		FAC			
7.	0			Prevalence Index = B/A =2	.50	
8.	0			Hydrophytic Vegetation Indicators:		
9	0			Dominance Test is > 50%		
10	0			✓ Prevalence Index is $\leq 3.0$		
Total Cover           _Herb Stratum_         50% of Total Cover:		of Total Cove	r: <u>18</u>	Morphological Adaptations <sup>1</sup> (Provide sup Remarks or on a separate sheet)		
1. Eriophorum angustifolium	2	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Ex	plain)	
2.	0			<sup>1</sup> Indicators of hydric soil and wetland hydrolog	iy must	
3				be present, unless disturbed or problematic.		
4.	0			Plot size (radius, or length x width)	0m	
5				% Cover of Wetland Bryophytes		
6				(Where applicable)		
7				% Bare Ground _0	<u> </u>	
8.	-			Total Cover of Bryophytes _7	5	
9						
10	0			Hydrophytic		
<b>Total Cover</b> 50% of Total Cover:		of Total Cover	: 0.4	Vegetation Present? Yes • No •		
Remarks:	2076		4			

	on: (Describe to the de <b>Matri</b>		cument the indicator or co	confirm the ab		cators)		
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-10		100			110-2	<u> </u>	Fibric Organics	
10-12		100					Sapric Organics	
12-16		100					Fibric Organics	
								-
	·							
1- 0.0			<b>7</b> ,					
<sup>1</sup> Type: C=Con	centration. D=Depl	etion. RM=Redu	uced Matrix <sup>2</sup> Locatio		-		annel. M=Matrix	
Hydric Soil In	dicators:		Indicators for P		4	oils: <sup>3</sup>		
Histosol or	Histel (A1)		Alaska Color C	• •	,	Ĺ	Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epipe			Alaska Alpine	•	,	Г	Underlying Layer	1
Hydrogen S	. ,		Alaska Redox	With 2.5Y I	Hue	L	☐ Other (Explain in Remark	S)
	Surface (A12)		<sup>3</sup> One indicator c	of hydrophy	/tic vegetati	on, one pri	mary indicator of wetland h	iydrology,
Alaska Gley			and an appropria					,
	ved Pores (A15)		<sup>4</sup> Give details of o	color chang	je in Remarl	ks		
-						······································		
Restrictive Layer Type: none							Hydric Soil Present	? Yes 🖲 No 🔿
Depth (inche							HYUTIC SUN FIESENE	
Remarks:						1		
	t within 45 inches							
	••••••							
l								
HYDROLOG	~~							
	ع ۲ ology Indicators:						Secondary Indi	cators (two or more are required)
	ors (any one is suff							ned Leaves (B9)
Surface Wa			Inundation	Visible on /	Aerial Image	erv (B7)		Patterns (B10)
	r Table (A2)				oncave Surfa		_	hizospheres along Living Roots (C3)
Saturation	(A3)		Marl Deposit	its (B15)		-	Presence o	of Reduced Iron (C4)
U Water Mar			Hydrogen Si	ulfide Odor	: (C1)		Salt Depos	
	Deposits (B2)		Dry-Season		. ,			Stressed Plants (D1)
Drift Depos	( )		Other (Expla	ain in Rema	arks)			ic Position (D2)
	or Crust (B4)							uitard (D3)
Iron Depos	sits (B5) il Cracks (B6)						Microtopog FAC-neutra	graphic Relief (D4)
Field Observat								Tilest (DS)
Surface Water		es 🔿 No 🖲	Depth (inch	nes):				
Water Table Pr		es O No O		-		Wetla	and Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pres							III IIyaiolog,	
(includes capill		es 🔍 No 🔾	Depth (inch	ies): 9				

Remarks:

lowest point within trough is innundated. 50ft from plot. No water table or shallow aquitard observed, thus not checking A3, but water table likely present below 16in.

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: