## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 08-Jul-13
Applicant/Owner: Alaska Energy Authority	Sampling Point:SW13_T101_0
Investigator(s): WAD, BAB	Landform (hillside, terrace, hummocks etc.): Bench
Local relief (concave, convex, none): hummocky	Slope: % / 0.9 ° Elevation: 846
Subregion : Copper River Basin Lat.	62.6702020171 Long.: -147.476833821 Datum: NAD8
Soil Map Unit Name:	NWI classification: PSS1/4B
	ar?       Yes ●       No ○       (If no, explain in Remarks.)         ttly disturbed?       Are "Normal Circumstances" present?       Yes ●       No ○         problematic?       (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ● Yes ●	No () No ()	Is the Sampled Area
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland? Yes $ullet$ No $igodot$
Remarks:			

## VEGETATION - Use scientific names of plants. List all species in the plot.

		Absolute	Absolute Dominant		Dominance Test worksheet:	
		% Cover		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: 3 (B)
3.						Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover:	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of To	otal Cover:	0 20%	of Total Cover:	0	OBL Species $0.1 \times 1 = 0.1$
1.	Salix pulchra		20	$\checkmark$	FACW	FACW Species 46.1 x 2 = 92.2
2.			10		FAC	FAC Species x 3 =141.3
3.			10		FAC	FACU Species x 4 =
4.	Dhadadandran tamantaaum		-		FACW	UPL Species x 5 =
5.	Empetrum nigrum		5		FAC	Column Totals: 93.3 (A) 233.6 (B)
6.	Vaccinium vitis-idaea		2		FAC	
7.	Picea mariana		20	$\checkmark$	FACW	Prevalence Index = B/A =2.504_
8.			0			Hydrophytic Vegetation Indicators:
						✓ Dominance Test is > 50%
			0			✓ Prevalence Index is $\leq$ 3.0
		Total Cover:				Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb Stratum         50% of Total Cover:         38.5			<u>38.5</u> 209			Remarks or on a separate sheet)
1.	Equisetum arvense		15		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Eriophorum scheuchzeri		0.1		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Arctagrostis latifolia		0.1		FACW	be present, unless disturbed or problematic.
4.	Petasites frigidus		1		FACW	Plot size (radius, or length x width) 10m
5.	Valeriana capitata				FAC	% Cover of Wetland Bryophytes
6.			0			(Where applicable)
7.			0			% Bare Ground
8.			0			Total Cover of Bryophytes30
9.			0			
			0			Hydrophytic
		Total Cover:	16.3			Vegetation
	50% of To	otal Cover: <u>8</u>	.15 20%	of Total Cover:	3.26	Present? Yes  No
Rem	narks:					

SOI	L

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)          Matrix       Redox Features						itors)					
Depth		%	Color (m	oist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-5		50)		Color (III	0.50)		1700	200	Fibric Organics		
5-12	10Y	3/1	50	2.5Y	4/3	40	RM	М	Silty Clay Loam		
+mottle				10YR	4/4	10	C	PL			
							- <u>-                                    </u>				
<sup>1</sup> Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicate	ors for Pro	oblematic	Hydric So	ils: <sup>3</sup>			
Histosol or	Histel (A1)			🗌 Alask	a Color Ch	ange (TA4	<b>4</b> +)		] Alaska Gleyed Without Hu	ue 5Y or Redder	
Histic Epip	edon (A2)			Alask	a Alpine sv	vales (TA5	5)	_	Underlying Layer		
Hydrogen	Sulfide (A4)			Alask	a Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	s)	
Thick Dark	Surface (A12)			30						1.1	
🗌 Alaska Gle	yed (A13)						e position r		nary indicator of wetland h esent	ydrology,	
🗹 Alaska Red	dox (A14)						•				
Alaska Gle	yed Pores (A15	)		4 Give d	etails of co	lor change	e in Remarks	5			
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inch	nes):										
Remarks:											
HYDROLO	GY										
Wetland Hyd		tors:							Secondary Indic	cators (two or more are required)	
	tors (any one is		)							ned Leaves (B9)	
Surface W	/ater (A1)			🗌 Inu	Indation Vis	sible on Ae	erial Imager	y (B7)		atterns (B10)	
🖌 High Wate	er Table (A2)			🗌 Spa	arsely Vege	tated Con	cave Surfac	e (B8)	Oxidized RI	nizospheres along Living Roots (C3)	
✓ Saturation	n (A3)			🗌 Ma	rl Deposits	(B15)			Presence o	f Reduced Iron (C4)	
🗌 Water Ma	rks (B1)			🖌 Нус	drogen Sulf	fide Odor	(C1)		Salt Deposi	its (C5)	
Sediment	Deposits (B2)			Dry	/-Season W	ater Table	e (C2)		Stunted or Stressed Plants (D1)		
Drift Depo	osits (B3)			🗌 Otł	ner (Explair	n in Remar	rks)		Geomorphi	c Position (D2)	
	or Crust (B4)								Shallow Aq		
Iron Depo	. ,								_	raphic Relief (D4)	
Surface S	oil Cracks (B6)							1	✓ FAC-neutra	l Test (D5)	
Field Observa											
Surface Water	Present?		No 🖲	De	pth (inches	5):					
Water Table P	Present?	Yes 🖲	No $\bigcirc$	De	pth (inches	s): 0		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igodom$	
Saturation Pre (includes capi		Yes 🖲	No $\bigcirc$	De	pth (inches	5): 0					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											