## WETLAND DETERMINATION DATA FORM - Alaska Region

TOJEC	/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 04-Jul-13			
pplica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T109_03			
nvesti	gator(s): JGK	L	Landform (hillside, terrace, hummocks etc.): Lowland					
ocal	elief (concave, convex, none): hummocky	;	Slope: 8.7	%/ 5.0	D° Elevation: 700			
ubrea	ion : Interior Alaska Mountains	Lat.: 6	62.872035027 Long.: -148.27268374 Datum: WGS8					
	p Unit Name:		NWI classification: PSS1B					
	• •	- time - f	Voo	• No ()				
Are \ Are \	natic/hydrologic conditions on the site typical for thi 'egetation □ , Soil □ , or Hydrology □ 'egetation □ , Soil ☑ , or Hydrology □ MARY OF FINDINGS - Attach site map sl	significantly naturally pro	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)			
•								
	, , , , , , , , , , , , , , , , , , ,		ls	the Sam	ipled Area			
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes $ullet$ No $igodot$					
	Wetland Hydrology Present? Yes   No.	0						
	arks: DUNN SITE 1390 SOIL 1394 HARE SCAT SANDPIPER GAME TRAIL. ETATION - Use scientific names of plants.	List all spec	cies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cover	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:3(B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Co	/er:			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	20% o	of Total Cover	0	OBL Species x 1 =			
1.	Betula nana	25	$\checkmark$	FAC	FACW Species <u>8.1</u> x 2 = <u>16.20</u>			
2.	Vaccinium uliginosum	35	$\checkmark$	FAC	FAC Species <u>92.1</u> x 3 = <u>276.3</u>			
3.	Vaccinium vitis-idaea	7		FAC	FACU Species x 4 =			
4.	Empetrum nigrum	10		FAC	UPL Species x 5 =			
5.	Ledum decumbens	7		FACW	Column Totals: <u>102.2</u> (A) <u>294.5</u> (B)			
6.	Andromeda polifolia (IAM)	2		OBL				
7.	Picea mariana	0.1		FACW	Prevalence Index = B/A =			
8.	Arctostaphylos rubra	0.1		FAC	Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
		0			✓ Prevalence Index is $\leq$ 3.0			
Hei	Total Cov b Stratum 50% of Total Cover:		of Total Cover	: 17.24	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii	15	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Pedicularis labradorica			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.					be present, unless disturbed or problematic.			
					Plot size (radius, or length x width) <u>10m</u>			
		0			% Cover of Wetland Bryophytes 25			
					(Where applicable)			
		0			% Bare Ground _5			
					Total Cover of Bryophytes			
7.								
7. 8.		0						
7. 8. 9.		0			Hydrophytic			
7. 8. 9.		0 0 /er: 16			Hydrophytic Vegetation Present? Yes No O			

Profile Description	on: (Describe to the depth needed to document the indicator or confirm the absence of indicato Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Re	marks		
0-2		100					Fibric Organics	Fibric Organics			
2-4.5		100					Hemic Organics	Hemic Organics			
4.5-6	p	100			,		Sapric Organics	Oa, some silt			
6-8	5YR 3/2	100					Coarse Sandy Silt				
							Coarse Sand				
8-14											
14+	10YR 3/2						Coarse Sandy Silt				
							-				
<sup>1</sup> Type: C=Con	centration. D=Depletio	on. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	– <u> </u>	 =Root Cha	nnel. M=Matrix				
	· · ·		Indicators for Pr								
-	Hydric Soil Indicators:			Alaska Color Change (TA4)			Alaska Gleyed Without Hue 5Y or Redder				
	Histosol or Histel (A1) Histic Epipedon (A2)			Alaska Alpine swales (TA5)			Underlying Layer				
Hydrogen S			Alaska Redox \	•	,	$\checkmark$	Other (Explain in Remarl	(s)			
	Surface (A12)										
Alaska Gley	. ,		<sup>3</sup> One indicator of and an appropriat	hydrophy te landsca	tic vegetation	n, one prin	nary indicator of wetland h	ydrology,			
Alaska Red				le lanuscaj	be position in	nust be pre	esent				
Alaska Gley	ed Pores (A15)		<sup>4</sup> Give details of c	olor chang	e in Remark	S					
Restrictive Laye	r (if present):										
Type:				Ну				Hydric Soil Present? Yes $ullet$ No $igodoldsymbol{ imes}$			
Depth (inch	es):										
Remarks:						·					
problematic soil.	. Coarse sediments red	cently deposit	ed due to lacustrine o	leposition	from nearby	lake.					
HYDROLOG	GY										
-	ology Indicators:						Secondary Indi	cators (two or mor	e are required)		
	ors (any one is sufficient	ent)						Water Stained Leaves (B9)			
Surface Wa	· · ·	Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)					
	r Table (A2)	Sparsely Vegetated Concave Surface (B8)				<ul> <li>Oxidized Rhizospheres along Living Roots (C3)</li> <li>Presence of Reduced Iron (C4)</li> </ul>					
Saturation			Marl Deposit	. ,	(61)		Salt Depos		+)		
Water Mar	( )		Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)				Stressed Plants (D	1)			
								ic Position (D2)	(1)		
	Drift Deposits (B3)     Other (Explain in Remarks)     Algal Mat or Crust (B4)						Shallow Aquitard (D3)				
							_	graphic Relief (D4)			
	oil Cracks (B6)							al Test (D5)			
Field Observa	( )										
Surface Water		○ No ●	Depth (inche	es):							
Water Table Pr		• No O		,		Wetla	nd Hydrology Presen	t?Yes 🖲	No O		
Saturation Pres	_		Depth (inche	,		Wetta	na nyarology riesen				
(includes capill	lary fringe) Yes		Depth (inche	es): 4							
Describe Record	led Data (stream gaug	ge, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:					
Remarks:											
pit water											
nH E											
pH 5											
EC 20	S OF SURFACE WATER	R									
EC 20	S OF SURFACE WATEF	R									