## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	08-Jul-13	
Applica	int/Owner: Alaska Energy Authority			1-		/13_T131_02	
	gator(s): SLI, SCB	side. terrac	e, hummocks etc.): Terrace				
	elief (concave, convex, none): hummocky		Slope:	% / 1.8	,		
			•		101		
-	ion : Interior Alaska Mountains		62.973550439		Long.:148.277496934 Datum: NAD83		
Soil Ma	p Unit Name:				NWI classification: PSS1B		
Are V Are V SUMN	egetation , Soil , or Hydrology r <b>MARY OF FINDINGS</b> - Attach site map show	significantly naturally pro ving sam	disturbed? oblematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ( eded, explain any answers in Remarks.) s, transects, important features, e		
	Hydrophytic Vegetation Present? Yes  No C		ls	the Sam	pled Area		
	Hydric Soil Present? Yes ● No ⊂	thin a W					
	Wetland Hydrology Present? Yes  No C						
	arks: subalpine willow wetland, mix of low and tall salp wetland. <b>TATION - Use scientific names of plants. Li</b>						
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	4 (A)	
1.						(A)	
2.		0			Total Number of Dominant Species Across All Strata:	4 (B)	
3.		0			Percent of dominant Species		
4.		0				00.0% (A/B)	
5.		0			Prevalence Index worksheet:		
	Total Cover:	0			Total % Cover of: Multiply I	ov:	
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 10.1 x 1 =	10.1	
4		50	$\checkmark$	FACW	FACW Species $51.1 \times 2 =$	102.2	
1. 2.	Salix pulchra	30		FAC	FAC Species $40.2 \times 3 =$	120.6	
3.	Vaccinium uliginosum Dasiphora fruticosa	1		FAC	FACU Species $0.1 \times 4 =$	0.400	
4.	Betula glandulosa	1		FAC	UPL Species $0 \times 5 =$	0	
5.	Spiraea stevenii	0.1		FACU			
	Salix reticulata	3		FAC	Column Totals: <u>101.5</u> (A)	<u>233.3</u> (B)	
о. 7.	Rhododendron tomentosum	1		FAC	Prevalence Index = B/A =	2.299	
<i>1</i> .	Salix fuscescens	0.1		FACW			
о. 9.		0.1		TACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
		0			✓ Dominance test is $> 50\%$ ✓ Prevalence Index is $\leq 3.0$		
10.	Total Cover:						
Her	b Stratum50% of Total Cover:			17.24	Morphological Adaptations <sup>1</sup> (Provide s Remarks or on a separate sheet)		
1.	Carex aquatilis	10		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (		
2.	Equisetum arvense	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydro		
3.	Rhodiola integrifolia	0.1		FAC	be present, unless disturbed or problematic		
4.	Comarum palustre	0.1		OBL	Plot size (radius, or length x width)	10m	
5.	Viola palustris (IAM)			FAC	% Cover of Wetland Bryophytes		
6.					(Where applicable)		
7.		0			% Bare Ground	0	
8.					Total Cover of Bryophytes	60	
		0			Hydrophytic		
	Total Cover:	-			Vegetation		
	50% of Total Cover:	.65 20%	of Total Cover:	3.06	Present? Yes $\odot$ No $\bigcirc$		
Rem	arks:						

SOIL

		ne depth neede I <b>atrix</b>	ed to documen	ument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (moi	st)	%C	olor (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-4								Fibric Organics			
4-12							-	Hemic Organics			
12-14				,				-	subrounded cobbles		
									-		
	. <u> </u>						-	-			
	. <u> </u>			,			-				
									- F		
<sup>1</sup> Type: C=Co	ncentration. D=	Depletion. R	1=Reduced	Matrix <sup>2</sup> Locatio	n: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	indicators:		I	ndicators for P	roblematic	: Hydric So	oils: <sup>3</sup>				
Histosol or Histel (A1)							Alaska Gleyed Without Hue 5Y or Redder				
✓       Histic Epipedon (A2)       □       Alaska Alpine swales (TA5)					5)	Underlying Layer					
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remarks)			
Thick Dar	k Surface (A12)		-								
🗌 Alaska Gle	eyed (A13)		د ;	One indicator of and an appropria	f hydrophyt te landscan	ic vegetation	n, one prin must be pre	nary indicator of wetland h	nydrology,		
🗌 Alaska Re	dox (A14)				•	•					
Alaska Gle	eyed Pores (A15	)	-	Give details of c	color change	e in Remark	S				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inc	hes):										
HYDROLO											
-	rology Indicat								cators (two or more are required)		
	ators (any one is	sufficient)		□ - ··· ·			(22)		ned Leaves (B9)		
_	Vater (A1) er Table (A2)			Inundation \					Patterns (B10) hizospheres along Living Roots (C3)		
Saturatio	( )			Sparsely Veg Marl Deposit			се (во)		of Reduced Iron (C4)		
Water Ma				Hydrogen Su	( )	(C1)		Salt Depos	( )		
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
Drift Dep				Other (Expla		• •			ic Position (D2)		
Algal Mat	or Crust (B4)					,		Shallow A	quitard (D3)		
Iron Dep	osits (B5)							Microtopo	graphic Relief (D4)		
Surface S	Soil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observ	ations:	$\sim$	$\sim$								
Surface Wate	r Present?	Yes 〇		Depth (inche	es):				-		
Water Table	Present?	Yes 🖲	No 🔿	Depth (inche	es): 7		Wetla	nd Hydrology Presen	it? Yes 🖲 No 🔾		
Saturation Pro (includes cap		Yes 🖲	No 〇	Depth (inch	es): 5						
		m gauge, mi	onitor well. a	erial photos, pre	vious inspe	ction) if ava	ailable:				
		3 <b>3</b> 0, m		p							
Remarks:											