## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric	Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Aug-15			
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T342_02			
	gator(s): AFW			Landform (hill	side, terrac	e, hummocks etc.): Hillside			
		nocky		Slope: 8.7					
	gion: Interior Alaska Mountains		Lat.:			Long.: Datum: WGS84			
			Lat						
	ap Unit Name:				<u> </u>	NWI classification: PSS1/EM1B			
	matic/hydrologic conditions on the site t	_	•		No ○	(If no, explain in Remarks.)   ormal Circumstances" present? Yes ● No ○			
	/egetation ☐ , Soil ☐ , or Hyd		-	ntly disturbed?		omai on outrotairoso prosonti			
Are \	/egetation ☐ , Soil ☐ , or Hyd	Irology L r	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)			
MUE	MARY OF FINDINGS - Attach si	ite map show	wing sa	ampling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Y	es No C	)						
	, , ,	res   No	)	Is	the Sam	e Sampled Area			
	,	res   ● No C		wi	ithin a W	'etland? Yes ◉ No 🔾			
Rem	, ,			I					
I CIII	arks.								
/EGI	ETATION - Use scientific names	of plants. Li	st all si	necies in the	nlot.				
		or plants. Li	3t an 3	pecies in the	piot.	Dominance Test worksheet:			
Tro	e Stratum		Absolut % Cove		Indicator Status	Number of Dominant Species			
1.	e Stratum_		70 0010			That are OBL, FACW, or FAC:4(A)			
2.				-		Total Number of Dominant			
3.			_	-		Species Across All Strata: 4 (B)			
4.				-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.				-					
		Total Cover:		_		Prevalence Index worksheet:  Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover: 0				0% of Total Cover:	0	OBL Species 4 x 1 = 4			
1	Vaccinium uliginasum		25	<b>✓</b>	FAC	FACW Species 14 x 2 = 28			
2.	Vaccinium uliginosum Salix reticulata		18		FAC	FAC Species 107 x 3 = 321			
3.	Rhododendron tomentosum		12	_	FACW	FACU Species 4 x 4 = 16			
4.	Potula none		10		FAC	UPL Species 0 x 5 = 0			
5.	Empetrum nigrum		7		FAC				
6.	Vaccinium vitis-idaea		7		FAC	Column Totals: <u>129</u> (A) <u>369</u> (B)			
	Andromeda polifolia(IAM)		3		OBL	Prevalence Index = B/A =2.860_			
8.	Arctous alpinus		3		FACU	Hydrophytic Vegetation Indicators:			
9.	Salix pulchra		2		FACW	✓ Dominance Test is > 50%			
10.	Cassiope tetragona		1		FACU	✓ Prevalence Index is ≤3.0			
		Total Cover:		_		Morphological Adaptations (Provide supporting data in			
He	rb Stratum 50% of <sup>-</sup>	Total Cover:	44 2	0% of Total Cover	17.6	Remarks or on a separate sheet)			
1.	Carex bigelowii		35		FAC	Problematic Hydrophytic Vegetation (Explain)			
	Bistorta plumosa		5	_ 📙	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Eriophorum angustifolium		1	_	OBL	be present, unless disturbed or problematic.			
4.				_ =		Plot size (radius, or length x width)			
5.						% Cover of Wetland Bryophytes			
				-		(Where applicable)			
				-		% Bare Ground			
				-		Total Cover of Bryophytes55			
				-					
10.			0			Hydrophytic			
		Total Cover:				Vegetation			
	50% of T	otal Cover:2	20 5 20	0% of Total Cover	8.2	Present? Yes   No			

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SOIL Sampling Point: SW15\_T342\_02

		the depth ne	eded to docum	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (me			Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-8			100	Color (illoise,		.,,,,		Mucky Peat	w mineral content		
8-15	5Y	4/1	100					Sandy Clay Loam	thixotropic, w gravel		
					-						
¹Type: C=Co	ncentration. D	=Depletion.	RM=Reduce	d Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or Histel (A1)  Alaska Color Change (TA4)								Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	pedon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y I	Hue		Other (Explain in Remark	<b>(</b> S)		
Thick Darl	k Surface (A12	2)		3 One indicator of	hydrophy	tic vegetatio	n one prin	nary indicator of wetland h	wdrology		
	eyed (A13)			and an appropria					iyarology,		
Alaska Re	, ,			4 Give details of c	olor chang	e in Remark	·c				
☐ Alaska Gle	eyed Pores (A1	5)		dive details of c	olor chang	e iii keiliaik	.5				
Restrictive Lay	er (if present):										
	dy clay loam							Hydric Soil Present	? Yes • No O		
Depth (incl	hes): 8										
Remarks:											
HYDROLO	GY										
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one	is sufficient	:)					Water Stained Leaves (B9)  (B7) Drainage Patterns (B10)			
Surface V	Vater (A1)			☐ Inundation \	/isible on A	erial Image	ry (B7)				
High Water Table (A2)				Sparsely Veg	jetated Coi	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	n (A3)			Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)		
Water Ma	irks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Depos	sits (C5)		
Sediment	Deposits (B2)			Dry-Season	Water Tab	le (C2)		Stunted or	Stressed Plants (D1)		
Drift Dep	osits (B3)			Other (Expla	in in Rema	ırks)			ic Position (D2)		
	or Crust (B4)							✓ Shallow Ac	. , ,		
Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6)	)					1	<b>✓</b> FAC-neutra	al Test (D5)		
Field Observa		v (	) N. (a)								
Surface Wate			No 💿	Depth (inche	es):						
Water Table F		Yes 🕑	No 🔾	Depth (inche	es): 6		Wetla	nd Hydrology Presen	it? Yes ● No O		
Saturation Pro (includes capi		Yes 💿	No O	Depth (inche	es): 2						
		eam gauge,	monitor well	, aerial photos, pre	vious inspe	ection) if ava	ailable:				
2 000.120 11000.		sa gaage,		, acriai priocos, pro		300.01.) 010					
Remarks:											
D3sandy clay	loam										

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