WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hyd	droelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 29-Aug-15					
Applica	ant/Owner: Alaska Energy	Authority				Sampling Point: SW15_T345_02					
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Lacustrine fringe											
Local	relief (concave, convex, none)): flat		Slope: 0.0	% / 0.0) ° Elevation:					
Subre	gion: Interior Alaska Mounta	ins	Lat	 t.:		Long.: Datum: WGS84					
	ap Unit Name:					NWI classification: PSS1/EM1E					
	matic/hydrologic conditions or	the cite typical for this ti	me of v	vear? Yes	• No O	(If no, explain in Remarks.)					
	egetation , Soil .	, or Hydrology		antly disturbed?		lormal Circumstances" present? Yes ● No ○					
Are \	egetation , Soil	, or Hydrology \Box	naturall	ly problematic?	(If nee	eded, explain any answers in Remarks.)					
SUM	MARY OF FINDINGS -	Attach site map sho	wina s	sampling poin	t locations	s, transects, important features, etc.					
	Hydrophytic Vegetation Pres			J J T T T T T T T T		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Hydric Soil Present?	Yes No		Is the Sampled Area							
	Wetland Hydrology Present?			within a Wetland? Yes ● No ○							
Rem	arks: Lacustrine fringe partially										
Kem	arks. Lacustrine minge partially	y surrounding large lake									
/EGI	ETATION - Use scientific	names of plants. Li	ist all	species in the	plot.						
		stratifies of plants. E				Dominance Test worksheet:					
Tre	e Stratum		Absol % Co		Indicator Status	Number of Dominant Species					
1.						That are OBL, FACW, or FAC:3 (A)					
2.						Total Number of Dominant Species Across All Strata: 3 (B)					
3.											
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
5.						Prevalence Index worksheet:					
		Total Cover	:)		Total % Cover of: Multiply by:					
Sap	ling/Shrub Stratum	50% of Total Cover:	0 :	20% of Total Cover	·:0	OBL Species 22 x 1 = 22					
	Coliv sulphro			60 ✓	FACW	FACW Species 61.1 x 2 = 122.2					
2.			_	0	FACW	FAC Species 13.2 x 3 = 39.60					
3.					-	FACU Species 5 x 4 = 20					
4.						UPL Species 0 x 5 = 0					
5.			_								
6.				0		Column Totals: <u>101.3</u> (A) <u>203.8</u> (B)					
7.				0		Prevalence Index = B/A = 2.012					
8.				D		Hydrophytic Vegetation Indicators:					
9.				D		✓ Dominance Test is > 50%					
10.				0		✓ Prevalence Index is ≤3.0					
Hei	b Stratum	Total Cover 50% of Total Cover:		0 20% of Total Cove	r: 12	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)					
_	Carex aquatilis			20	OBL	Problematic Hydrophytic Vegetation (Explain)					
2.	Calamagrostis canadensis			10	FAC	Indicators of hydric soil and wetland hydrology must					
3.	Stellaria longipes		_	.1	FAC	be present, unless disturbed or problematic.					
4.	Comarum palustre			2	OBL						
5.	Polemonium acutiflorum			2	FAC	Plot size (radius, or length x width) 10m					
6.	Rhodiola integrifolia			.1	FAC	% Cover of Wetland Bryophytes (Where applicable)					
7.	Luzula parviflora			1	FAC	% Bare Ground 10					
8.	Sanguisorba canadensis		0	.1	FACW	Total Cover of Bryophytes 40					
9.	Swertia perennis		_	<u> </u>	FACW						
Ú.	Rubus arcticus(IAM)			5	FACU	Hydrophytic					
10.				•		Vanatation					
10.		Total Cover 50% of Total Cover:2			: 8.26	Vegetation Present? Yes ● No ○					

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SOIL Sampling Point: SW15_T345_02

	tion: (Describe to the depth needed to do Matrix				nfirm the abs		ators)				
Depth (inches)	Color (moi	st)	% Co	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-16	Color (IIIo			olor (moise)		1700	LUC	Mucky Peat	cobbles to stones throughout		
			— —								
	-				-			-			
					-			-			
1											
		Depletion. R		Matrix ² Location				nnel. M=Matrix			
Hydric Soil I			In	ndicators for Pr		4	oils:	7			
✓ Histosol or Histel (A1)				Alaska Color Ch		•		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	pedon (A2)			Alaska Alpine s	•	•		¬ · · ·			
✓ Hydrogen				Alaska Redox V	Vith 2.5Y F	lue		U Other (Explain in Remarks)			
	k Surface (A12)		3	One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	ovdrology		
Alaska Gle	eyed (A13)			and an appropriat					rydrology,		
Alaska Re	. ,		4	Civo dotails of s	olor change	n in Domark	-				
Alaska Gle	eyed Pores (A15)		Give details of co	Jioi Change	e III Kelliaik	.5				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	? Yes ● No ○		
Depth (inc	hes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)		
Surface V	Vater (A1)		[☐ Inundation V	isible on A	erial Imager	ry (B7)	Drainage F	Patterns (B10)		
✓ High Water Table (A2)			[Sparsely Veg	etated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation (A3)			[Marl Deposits	s (B15)			Presence of	of Reduced Iron (C4)		
☐ Water Ma	ırks (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depos	sits (C5)		
Sediment	Deposits (B2)			Dry-Season V	Water Table	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Dep	osits (B3)			Other (Explai	in in Rema	rks)		✓ Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)		
Iron Depo	osits (B5)							_	graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observ	ations:										
Surface Wate	r Present?	Yes 🔾	No 🖭	Depth (inche	s):						
Water Table I	Present?	Yes 💿	No \bigcirc	Depth (inche	s): 5		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pro (includes cap		Yes	$_{No}\bigcirc$	Depth (inche	s): 0						
		ım gauge, m	ionitor well, a	erial photos, prev	vious inspe	ction) if ava	nilable:				
Remarks:											

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