WETLAND DETERMINATION DATA FORM - Alaska Region

Projecti	/Site: Susitna-Watana Hydroelectric Project		Bo	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 04-Jul-13						
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T109_03						
Investiç	gator(s): JGK	e, hummocks etc.): Lowland										
Local r	elief (concave, convex, none): hummocky	S ° Elevation: 695										
	ion: Interior Alaska Mountains	l a	t · 6									
_												
	p Unit Name:	NWI classification: PSS1B										
Are V	matic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map site	signific natural	antly	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Signature No Signa												
	.,,	0		within a Wetland? Yes • No								
	Wetland Hydrology Present? Yes No arks: Game trail, hare scat, sandpiper.	\circ		WI	ının a vv	etiand? Tes © No ©						
	ETATION -Use scientific names of plants		•			Dominance Test worksheet:						
Tro	e Stratum	Abso % Co		Dominant Species?	Indicator Status	Number of Dominant Species						
1.	e Stratum	_70 CC	0			That are OBL, FACW, or FAC: 3 (A)						
2.			0			Total Number of Dominant						
3.			0			Species Across All Strata: 3 (B)						
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.			0									
	Total Co	ver:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:						
San	ling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0	001.0						
-				_								
	Betula nana		25	✓	FAC							
	Vaccinium uliginosum		35 7		FAC							
	Vaccinium vitis-idaea				FAC	UPL Species 0 x 5 = 0						
	Empetrum nigrum		7		FACW							
	Rhododendron tomentosum		2		OBL	Column Totals: <u>102.2</u> (A) <u>294.5</u> (B)						
	Andromeda polifolia (IAM) Picea mariana		0.1		FACW	Prevalence Index = B/A =						
	Arctous ruber		0.1		FAC	Undershit Vosetsking Indicators						
•			0.1		TAC	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%						
40			0			✓ Prevalence Index is ≤3.0						
10.	Total Co		_			Morphological Adaptations (Provide supporting data in						
Her	b Stratum 50% of Total Cover:			of Total Cover	: 17.24	Remarks or on a separate sheet)						
	Carex bigelowii		15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
	Pedicularis labradorica		1		FACW	¹ Indicators of hydric soil and wetland hydrology must						
			0			be present, unless disturbed or problematic.						
			0			Plot size (radius, or length x width) 10m						
			0									
			0			% Cover of Wetland Bryophytes (Where applicable)						
7.			0			% Bare Ground5						
8.			0			Total Cover of Bryophytes 40						
9.			0									
10.			0			Hydrophytic						
	Total Co 50% of Total Cover:			of Total Cover:		Vegetation Present? Yes ● No ○						
			111%	T LOTAL L'OVAP	3.2	Freactile 163 C NO C						

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SOIL Sampling Point: SW13_T109_03

									110 54415_1105_05		
Profile Descripti		the depth ne Matrix	eded to docum	nent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2			100					Fibric Organics	Fibric Organics		
2-4.5			100					Hemic Organics	Hemic Organics		
4.5-6			100					Sapric Organics	Oa, some silt		
6-8	5YR	3/2	100					Coarse Sandy Silt			
8-14								Coarse Sand			
	10VP	2/2	100					Coarse Sandy Silt			
14+	10YR	3/2						Coarse Sariay Silt			
								-			
Type: C=Cor	ncentration. D=		RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	-		
Hydric Soil I	ndicators	-		Indicators for Pr	ohlemati	c Hydric Sc	niler ³				
	Histel (A1)			Alaska Color C		4	, 5 .	Alaska Gleyed Without H	ue 5V or Redder		
Histic Epip	` '			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox \	•	•	✓	Other (Explain in Remark	rs)		
	Surface (A12))									
Alaska Gle	eyed (A13)			³ One indicator of and an appropria				nary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)					•	•				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of o	olor chang	e in Kemark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
Remarks:											
								present, coarse soil profile	points to a low organic soil content		
problematic soi	I. Coarse sedin	nents recen	tly deposited	d due to lacustrine o	leposition	from nearby	lake.				
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	is sufficient)					Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	(B7) Drainage Patterns (B10)			
	✓ High Water Table (A2) ☐ Sparsely Vegetated						ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation	. ,			Marl Deposit	. ,				of Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)		
Iron Depo	or Crust (B4)								quitard (D3) graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa								TAC ficult	11 1031 (103)		
Surface Water		Yes C	No	Depth (inche	es):						
Water Table P			No O	Depth (inche	•		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre					•		11 30101	,			
(includes capi		Yes 🔍	No O	Depth (inche	es): 4						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
pit water											
pH 5											
SMALL PATCHE	S OF SURFACE	E WATER									

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