WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Jul-13			
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T139_03			
nvest	igator(s): WAD. BAB	side, terrac	ce, hummocks etc.): Gulch or Gully						
Local	relief (concave, convex, none): concave			Slope: % / 2.4 ° Elevation: 452					
Subre	gion : Southcentral Alaska		lat e	62.8225482703 Long.: -149.59715426 Datum: NAD83					
	ap Unit Name:	_		NWI classification: PSS4/3B					
		this time	of woor?) Voc	● No ○				
	matic/hydrologic conditions on the site typical for /egetation \Box , Soil \Box , or Hydrology		•	disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
	/egetation , Soil , or Hydrology	_ `	•	oblematic?		eded, explain any answers in Remarks.)			
	•				•	•			
SUM	MARY OF FINDINGS - Attach site map	showin	g sam	pling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes	No O			41	. I. A			
	Hydric Soil Present? Yes ●	No \bigcirc		Is the Sampled Area					
	Wetland Hydrology Present? Yes	No O		Wi	ithin a W	retland? Yes © No C			
Rem	arks: trough at the crest of ridge.								
/EGI	ETATION - Use scientific names of plan	ts. List	all spe	cies in the	plot.				
	•		solute	Dominant	•	Dominance Test worksheet:			
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.	Picea mariana		20	✓	FACW	That are OBL, FACW, or FAC:3 (A) 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: 100.0% (A/B)			
5.						Prevalence Index worksheet:			
		Cover:	20			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cove	r: <u>10</u>	20%	of Total Cover:	4	OBL Species <u>2</u> x 1 = <u>2</u>			
1.	Picea mariana		25	✓	FACW	FACW Species <u>80</u> x 2 = <u>160</u>			
2.	Rhododendron tomentosum		25	✓	FACW	FAC Species 30 x 3 = 90			
3.	Empetrum nigrum		15		FAC	FACU Species <u>0</u> x 4 = <u>0</u>			
4.	Chamaedaphne calyculata		10		FACW	UPL Species			
5.	Vaccinium uliginosum		10		FAC	Column Totals:112 (A)252 (B)			
6.	Betula nana		5		FAC	Prevalence Index = B/A =			
7.			0			Trevalence index – B/A –			
8.						Hydrophytic Vegetation Indicators:			
9.						✓ Dominance Test is > 50%			
10.						Prevalence Index is ≤3.0			
He	Total rb Stratum 50% of Total Cove	Cover: er: <u>45</u>	<u>90</u> 20%	of Total Cover	: 18	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Eriophorum angustifolium		2		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.			0			¹ Indicators of hydric soil and wetland hydrology must			
						be present, unless disturbed or problematic.			
						Plot size (radius, or length x width)			
						% Cover of Wetland Bryophytes			
						(Where applicable)			
			0			% Bare Ground			
						Total Cover of Bryophytes			
10.	Total	Cover:	2			Hydrophytic Vegetation			
	IOtal								
	50% of Total Cove	r: 1	20% (of Total Cover:	0.4	Present? Yes No			

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SOIL Sampling Point: SW13_T139_03

Profile Descript			ded to docum	ent the indicator or co			ators)		
Depth (inches)		latrix			dox Featu		. 2	Tarahuna	Domonto
(inches)	Color (mois	st)		Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture Fibric Organics	Remarks
0-10			100				-		
10-12			100					Sapric Organics	
12-16			100					Fibric Organics	
-	-				-				
¹Type: C=Co	ncentration. D=I	Depletion. I	RM=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemation	c Hydric So	oils: ³		
✓ Histosol o				Alaska Color C		4		Alaska Gleyed Without Hu	ıe 5Y or Redder
	pedon (A2)			Alaska Alpine s				Underlying Layer	
	Sulfide (A4)			Alaska Redox \	-			Other (Explain in Remark	s)
	k Surface (A12)								
	eyed (A13)			³ One indicator of	hydrophyt	tic vegetatio	n, one prin	nary indicator of wetland h	ydrology,
Alaska Re				and an appropria	te landscap	e position r	nust be pre	esent	
	eyed Pores (A15))		4 Give details of o	olor chang	e in Remark	S		
Restrictive Lay	er (if present):								
Type: non	e							Hydric Soil Present?	? Yes ⊙ No O
Depth (incl	nes):								
HYDROLO	GY								
·	rology Indicat	ors:						_Secondary Indic	ators (two or more are required)
Primary Indica	ators (any one is	sufficient)							ned Leaves (B9)
Surface V	Vater (A1)			☐ Inundation V	isible on A	erial Imagei	ry (B7)	☐ Drainage P	atterns (B10)
High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)
Saturation	n (A3)			Marl Deposit	s (B15)			Presence of	Reduced Iron (C4)
☐ Water Ma	ırks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Deposi	ts (C5)
Sediment	Deposits (B2)			Dry-Season \	Water Tabl	e (C2)		✓ Stunted or	Stressed Plants (D1)
☐ Drift Dep	osits (B3)			Other (Expla	in in Rema	rks)		✓ Geomorphi	c Position (D2)
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)
Iron Depo	osits (B5)							_	raphic Relief (D4)
☐ Surface S	oil Cracks (B6)						1	✓ FAC-neutra	Test (D5)
Field Observa	ations:								
Surface Wate	r Present?	Yes O		Depth (inche	es):				
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	es):		Wetla	nd Hydrology Present	t? Yes 💿 No 🔾
Saturation Pro (includes capi		Yes	No \bigcirc	Depth (inche	es): 9				
		m gauge, r	nonitor well	, aerial photos, pre	vious inspe	ection) if ava	ailable:		
Remarks: lowest point w	ithin trough is in	ınundated.	50ft from p	lot. No water table	or shallow	aquitard ob	served, the	us not checking A3, but wa	ter table likely present below 16in.

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