WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 30-Jul-13					
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T156_08					
	gator(s): BAB	ce, hummocks etc.): Toeslope								
	relief (concave, convex, none): hummocky		0 ° Elevation: 992							
	gion : Interior Alaska Mountains	lat: (· 63.283594250							
		Lat	33.203334230							
	ap Unit Name:			No ○	NWI classification: PSS1B					
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significantly naturally pr	disturbed?	Are "N (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	\supset			1.14					
	Hydric Soil Present? Yes No	\sim		Is the Sampled Area within a Wetland? Yes ● No ○						
	Wetland Hydrology Present? Yes No	\sim	Wi	thin a W	etland? Yes ♥ No ∪					
Rem										
	ETATION - Use scientific names of plants.	List all spe Absolute M Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species					
1.		0			That are OBL, FACW, or FAC: 4 (A)					
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)					
3.					Percent of dominant Species					
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)					
5.		0			Prevalence Index worksheet:					
	Total Cove	er: <u> </u>			Total % Cover of: Multiply by:					
Saj	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 13 x 1 = 13					
1	Salix alaxensis	50	✓	FAC	FACW Species 20.1 x 2 = 40.20					
	Salix pulchra		✓	FACW	FAC Species 79.2 x 3 = 237.6					
	Vaccinium uliginosum	10		FAC	FACU Species0 x 4 =0					
4.		0			UPL Species0 x 5 =0					
5.					Column Totals: <u>112.3</u> (A) <u>290.8</u> (B)					
6.		0								
7.		0			Prevalence Index = B/A = 2.589					
8.		0			Hydrophytic Vegetation Indicators:					
9.		0			✓ Dominance Test is > 50%					
10.		0_			✓ Prevalence Index is ≤3.0					
Total Cover: 80 Morphological Adaptations ¹ (Provide supp 50% of Total Cover: 40 20% of Total Cover: 16 Remarks or on a separate sheet)										
1.	Carex aquatilis	8	~	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)					
2.	Comarum palustre	5		OBL	¹ Indicators of hydric soil and wetland hydrology must					
3.	Equisetum variegatum			FACW	be present, unless disturbed or problematic.					
4.	Equisetum arvense			FAC	Plot size (radius, or length x width)					
5.	Rhodiola integrifolia			FAC	% Cover of Wetland Bryophytes					
6.	Polemonium acutiflorum	1		FAC	(Where applicable)					
7.	Stellaria longifolia			FAC	% Bare Ground					
8.	Anemone richardsonii			FAC	Total Cover of Bryophytes					
9.	Rumex arcticus	$-\frac{0.1}{0}$		FAC						
10.	Total Cove				Hydrophytic Vegetation					
	TOTAL COVE	r: <u>32.3</u>								
	50% of Total Cover:	16.15 20%	of Total Cover:	6.46	Present? Yes ● No ○					

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SOIL Sampling Point: SW13_T156_08

Profile Descripti		the depth ne	eded to docum	nent the indicator or co	onfirm the abs		cators)					
(inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-9			100					Fibric Organics	some mineral soil from 5-9			
9-17		3/1	100					Loamy Sand	lots of org content			
					-		-					
					- —							
					-			-				
¹ Type: C=Cor	ncentration. D=	Depletion.		ed Matrix ² Location		_		annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblematic	c Hydric S	oils: ³					
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder			
✓ Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA!	5)	_	Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Nith 2.5Y h	lue	L	Other (Explain in Remark	s)			
☐ Thick Darl	k Surface (A12)											
Alaska Gle	eyed (A13)			One indicator of and an appropriat				mary indicator of wetland hesent	ydrology,			
Alaska Red	dox (A14)					•	•	CSCIIC				
	eyed Pores (A15	5)		⁴ Give details of co	olor change	e in Remark	KS					
Restrictive Laye												
Type: sead								Hydric Soil Present	? Yes ● No O			
Depth (inch	nes): 17											
HYDROLO	GY											
Wetland Hyd		tors:						Secondary Indi	cators (two or more are required)			
	ators (any one is		<u>i)</u>					Water Stair	ned Leaves (B9)			
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				☐ Drainage P	Patterns (B10)			
✓ High Water Table (A2)				☐ Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
✓ Saturation	. ,			Marl Deposits (B15)					f Reduced Iron (C4)			
Water Ma	irks (B1)			Hydrogen Sulfide Odor (C1)				Salt Depos	its (C5)			
Sediment	Deposits (B2)			Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)			
Drift Depo	osits (B3)			Other (Explai	in in Rema	rks)			ic Position (D2)			
	or Crust (B4)							✓ Shallow Aq	' '			
Iron Depo	` ,								graphic Relief (D4)			
☐ Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)			
Field Observa	ations:	_	`									
Surface Water	r Present?		No 💿	Depth (inche	es):				_			
Water Table P	Present?	Yes 🧿	No 🔾	Depth (inche	es): 5		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾			
Saturation Pre (includes capi		Yes •	No O	Depth (inche	es): 2							
Describe Recor	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Domarko												
Remarks: small stream or seep to the nw of plot.												
small stream of	r seep to the ni	w or plot.										

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