WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	I	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 03-Aug-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T179_10		
	gator(s): WAD, RWM	Landform (hil	lside, terrac	ce, hummocks etc.): Hillside			
	elief (concave, convex, none): planar	Slope: 3.5		O ° Elevation: 1186			
	, <u>p</u>	l ot :					
_	jion : Interior Alaska Mountains	Lai	63.14771235				
	p Unit Name:			<u> </u>	NWI classification: PEM1E		
Are V Are V		significant naturally p wing sar	ly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	, , , ,	Is	Is the Sampled Area				
			within a Wetland? Yes • No •				
	Wetland Hydrology Present? Yes No C						
	ETATION - Use scientific names of plants. Li	ist all sp Absolute % Cover	e Dominant	•	Dominance Test worksheet: Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:5(A)		
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)		
5.		0			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 15 x 1 = 15		
1.	Salix fuscescens	5	✓	FACW	FACW Species 10 x 2 = 20		
2.	Cassione tetragona	4	- <u>~</u>	FACU	FAC Species 14 x 3 = 42		
3.	Empetrum nigrum			FAC	FACU Species 6 x 4 = 24		
4.	Salix reticulata	2	✓	FAC	UPL Species 0 x 5 = 0		
5.	Vaccinium uliginosum	2		FAC	Column Totals: <u>45</u> (A) <u>101</u> (B)		
6.	Salix pulchra	- 1		FACW			
7.		0			Prevalence Index = B/A = 2.244		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
Her	Total Cover b Stratum 50% of Total Cover:	_ % of Total Cove	r: <u>3.6</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex aquatilis	10	~	OBL	Problematic Hydrophytic Vegetation (Explain)		
2.	Eriophorum angustifolium	5	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex bigelowii	4	_	FAC	be present, unless disturbed or problematic.		
4.	Artemisia norvegica	2	_	FACU	Plot size (radius, or length x width)		
5.	Aconitum delphinifolium	1		FAC	% Cover of Wetland Bryophytes		
6.	Dodecatheon pulchellum	1	- 📙	FACW	(Where applicable)		
7.	Swertia perennis		-	FACW	% Bare Ground		
8.	Carex saxatilis		-	FACW	Total Cover of Bryophytes		
9.	Arctagrostis latifolia		-	FACW			
10.	Equisetum arvense	1		FAC	Hydrophytic		
	Total Cover 50% of Total Cover:		_ % of Total Cover	: 5.4	Vegetation Present? Yes No		
-		20.0			I		
Rem	arks: astalp 1. bare soil and water 15.						

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SOIL Sampling Point: SW13_T179_10

Profile Descript		ne depth nee	ded to documer	at the indicator or co	nfirm the abs		ators)					
Depth (inches)			~ _		wox reatu %	Type ¹	_Loc_2	Texture	Remarks			
05	Color (mois	st)	<u>%</u> _ C	Color (moist)		Type	Loc	Fibric Organics	Kemarks			
			100					Hemic Organics				
.5-16	-				-			- Tierriic Organics				
-												
					-							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:		I	ndicators for Pr	oblematio	: Hydric So	oils: ³					
✓ Histosol o	Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	pedon (A2)			Alaska Alpine s	laska Alpine swales (TA5) Underlying Layer							
✓ Hydrogen	Sulfide (A4)			Alaska Redox V	Nith 2.5Y F	lue		Other (Explain in Remarks)				
☐ Thick Darl	k Surface (A12)											
Alaska Gle	eyed (A13)			One indicator of and an appropriat				nary indicator of wetland hy	ydrology,			
Alaska Re	dox (A14)				•	•	•	Serie				
Alaska Gle	eyed Pores (A15))		⁴ Give details of co	olor change	e in Remark	is .					
Restrictive Lay	er (if present):											
Type:								Hydric Soil Present?	? Yes ● No O			
Depth (incl	nes):											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indic	cators (two or more are required)			
Primary Indica	ntors (any one is	sufficient)						Water Stair	ned Leaves (B9)			
✓ Surface V	Vater (A1)			☐ Inundation V	isible on A	erial Imagei	ry (B7)	Drainage Pa	atterns (B10)			
✓ High Wat	er Table (A2)			Sparsely Veg	etated Con	cave Surfac	ce (B8)		nizospheres along Living Roots (C3)			
✓ Saturation	. ,			Marl Deposits	` '			_	f Reduced Iron (C4)			
Water Ma				✓ Hydrogen Su	Ifide Odor	(C1)		Salt Deposi				
	Deposits (B2)			☐ Dry-Season \				_	Stressed Plants (D1)			
Drift Dep				U Other (Explain	in in Rema	rks)		✓ Geomorphi	` '			
_	or Crust (B4)							Shallow Aq				
☐ Iron Depo	. ,							_	raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutra	i Test (D5)			
Field Observa		Yes •	No O	Danth (in the	1							
Surface Wate				Depth (inche	es): 1							
Water Table F		Yes		Depth (inche	es): 6		Wetlar	nd Hydrology Present	t? Yes • No O			
Saturation Pro (includes capi		Yes •	No O	Depth (inche	es): 0							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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