WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 04-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T133_01			
Invest	igator(s): WAD, RWM		Landform (hil	lside, terrac	ce, hummocks etc.): Toeslope			
	relief (concave, convex, none): planar		Slope:	% / 4.6 ° Elevation: 780				
	gion : Interior Alaska Mountains	l at ·	 62.91542494					
	ap Unit Name:	<u> </u>	NWI classification: PSS1B					
	· -		0 Voo	● No ○				
	matic/hydrologic conditions on the site typical for this /egetation \Box , Soil \Box , or Hydrology \Box	-	ar? res ntly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
	/egetation , Soil , or Hydrology	•	problematic?		iornal olloumstances present:			
					eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sh	owing sa	ampling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No	\circ		41 0	usland Aussa			
	Hydric Soil Present? Yes ● No	\bigcirc		Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes No	0	W	within a Wetland? Yes ● No ○				
Rem	arks:							
VEGI	ETATION - Use scientific names of plants.	List all sp	oecies in the	plot.				
	,	Absolut			Dominance Test worksheet:			
Tre	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)			
1.		0			That are OBL, FACW, or FAC: 7 (A) Total Number of Dominant			
2.		0			Species Across All Strata: 7 (B)			
3.		0			Percent of dominant Species			
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	_		Prevalence Index worksheet:			
	Total Cov		_		Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	020	% of Total Cover	:0	OBL Species x 1 =1			
1.	Vaccinium uliginosum	45	_	FAC	FACW Species 23 x 2 = 46			
2.	Empetrum nigrum	15	<u> </u>	FAC	FAC Species 96 x 3 = 288			
3.	Betula nana	15	<u> </u>	FAC	FACU Species 0 x 4 = 0			
4.	Rhododendron tomentosum			FACW	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Vaccinium vitis-idaea			FAC	Column Totals: <u>120</u> (A) <u>335</u> (B)			
6.	Picea mariana			FACW	Prevalence Index = B/A = 2.792			
7.	Salix pulchra		_	FACW				
8.	Salix richardsonii	$- \frac{1}{0}$	_	FACW	Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
9.		$- \frac{0}{0}$			✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0			
10.	Total Cov							
He	rb Stratum 50% of Total Cover:			r: 18.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii	10	V	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum sylvaticum			FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus			FACW	be present, unless disturbed or problematic.			
4.	Rubus chamaemorus	_	✓	FACW	Plot size (radius or length y width)			
5.	Juncus castaneus	2		FACW	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes			
6.	Carex canescens (IAM)	4		FAC	(Where applicable)			
7.	Ranunculus hyperboreus	1		OBL	% Bare Ground			
8.		0	_ 📙		Total Cover of Bryophytes			
•		0	_					
9.								
9.		0	_		Hydrophytic			
9.		er: 29		: 5.8	Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T133_01

Duefile Descript	ina. (Describe to	the depth no	docum	- at the inc	ii-ates or con	firm the abo	of indic		F 5	10mt. 5W15_1155_01
	ion: (Describe to	the depth nee	eded to docume	ent the inc		firm the abs		cators)		
Depth (inches)	Color (mo			Color (m		%	Type ¹	_Loc_2	- Texture	Remarks
0-7	COIOI (IIII	DISCI	100	COIOI (III	OIST)	-70	Туре	LUC	Fibric Organics	10.110.110
7-11			100 —						Hemic Organics	
11-16	10YR		70	5YR	3/4	30			Silt Loam	
¹Type: C=Co	ncentration. D	=Depletion.	RM=Reduce	d Matrix	² Location	: PL=Pore	e Lining. RO	=Root Cha	nnel. M=Matrix	
Hydric Soil I	indicators:			Indicat	ors for Pro	blematic	: Hydric S	oils: ³		
	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without Hu	ue 5Y or Redder
	pedon (A2)				ka Alpine sv		-		Underlying Layer	
	Sulfide (A4)			Alasl	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	5)
☐ Thick Dar	k Surface (A12)		_						
Alaska Gle	eyed (A13)							on, one prim must be pre	nary indicator of wetland hy	ydrology,
Alaska Re	dox (A14)					•	•	·	COCIT	
Alaska Gle	eyed Pores (A1	5)		4 Give d	letails of col	lor change	e in Remarl	KS .		
Restrictive Lay	er (if present):									
Type: sea	sonal frost								Hydric Soil Present?	? Yes ● No ○
Depth (inc	hes): 26								•	
Remarks:										
HYDROLO										
Wetland Hyd										rators (two or more are required)
	ators (any one Vater (A1)	is sufficient			datia \(i	A		(DZ)		ned Leaves (B9)
	er Table (A2)				undation Vis		_			atterns (B10) nizospheres along Living Roots (C3)
✓ Flight Wat	` ,				arsely Vege arl Deposits		icave Surra	ce (B8)		f Reduced Iron (C4)
Water Ma	` '				drogen Sulf	,	(C1)		Salt Deposi	` '
	Deposits (B2)				y-Season W					Stressed Plants (D1)
	osits (B3)				y-season w her (Explain					c Position (D2)
	or Crust (B4)				ici (Expiaii	I III Keilla	185)		Shallow Aq	
☐ Iron Dep										raphic Relief (D4)
	Soil Cracks (B6)	1							✓ FAC-neutral	
Field Observ										1030 (23)
Surface Wate		Yes \bigcirc	No 💿	D€	epth (inches	s):				
Water Table I			No O			•		Wetlar	nd Hydrology Present	t? Yes • No O
Saturation Pro				DE	epth (inches	,): O		, vi cciai	na myarology i resem	165 0 140 0
(includes cap		Yes 🕑	No O	De	epth (inches	s): 0				
Describe Reco	rded Data (stre	eam gauge,	monitor well,	, aerial p	hotos, previ	ious inspe	ction) if av	ailable:		
	•			·			,			
Remarks:										
some small patches of surface water in scattered depressions										

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