## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-13			
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T173_07			
	gator(s): BAB		Landform (hill	indform (hillside, terrace, hummocks etc.): Footslope				
	elief (concave, convex, none): rolling			Slope: 17.6 % / 10.0 ° Elevation: 1053				
	ion : Interior Alaska Mountains	L at :						
_		Lai	03.104739463	3.1647594832 Long.: -148.254774716 Datum: WGS84				
	p Unit Name:			<u> </u>	NWI classification: Upland			
Are V Are V		significantly naturally pr wing san	y disturbed? roblematic? npling point	(If nee	·			
	Hydric Soil Present? Yes ○ No ●	)	Is	Is the Sampled Area				
	Wetland Hydrology Present? Yes No •		within a Wetland? Yes ○ No ●					
	arks:							
Tree	TATION - Use scientific names of plants. Li	st all spe	Dominant	-	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 8 (A)			
1.		0			Total Number of Dominant			
2.		0			Species Across All Strata: 8 (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 Cover:				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =			
1.	Salix reticulata	5	<b>✓</b>	FAC	FACW Species <u>50</u> x 2 = <u>100</u>			
2.	Empetrum nigrum	10	<b>✓</b>	FAC	FAC Species <u>58.1</u> x 3 = <u>174.3</u>			
3.	Arctostaphylos rubra	5	<b>✓</b>	FAC	FACU Species 22 x 4 = 88			
4.	Vaccinium uliginosum	8	✓	FAC	UPL Species			
5.	Salix pulchra	5	✓	FACW	Column Totals: <u>130.1</u> (A) <u>362.3</u> (B)			
6.	Betula nana	5	<b>✓</b>	FAC				
7.		0			Prevalence Index = B/A = 2.785			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Her	Total Cover: 50% of Total Cover:		% of Total Cover	7.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Angelica lucida	8		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Sanguisorba canadensis			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Artemisia norvegica			FACU	be present, unless disturbed or problematic.			
4.	Aconitum delphinifolium	-		FAC	Plot size (radius, or length x width)			
5.	Trisetum spicatum			FAC	% Cover of Wetland Bryophytes			
6.	Luzula parviflora	2		FACU	(Where applicable)			
7.	Solidago multiradiata			FACU FACU	% Bare Ground			
8.	Lupinus arcticus  Dodecatheon frigidum	10		FACU	Total Cover of Bryophytes 4			
9. 10.	Festuca altaica	20	<b>✓</b>	FACV				
10.	Total Cover:		•		Hydrophytic Vegetation			
	50% of Total Cover:4		of Total Cover:	_18.42_	Present? Yes • No O			
D					<u> </u>			
Rem	arks: sentri, carpod,sedros, sweper, polviv, pyrasa tr			18.42	1.000			

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SOIL Sampling Point: SW13\_T173\_07

									10 51715_1175_07		
Profile Description			eded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)	Matrix								Remarks		
0-3	Color (mo	oist)	<u>%</u> 100	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Fibric Organics	Remarks		
	10\/D	2/2						Sand			
3-8	10YR	3/2	100						thin organic layer at 6. semi rounded gravel		
8-11	7.5YR	3/3	100					Silt Loam	semi rounded gravel		
11-21	2.5Y	4/2	100					Sandy Loam	thin org layer at 11. semi rounded gravel		
-	-		-								
	-		-		-						
¹Type: C=Con	centration. D	-Depletion	RM=Reduc	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	dicators			Indicators for Pr	ohlemati	c Hydric So	nile <sup>3</sup>				
	Histel (A1)			Alaska Color C		4	,iis.	Alaska Gleyed Without H	ua SV or Paddar		
Histic Epip	` '			Alaska Alpine s		-		Underlying Layer	ue 31 Oi Reddei		
	Sulfide (A4)			Alaska Redox \	•	•		Other (Explain in Remarks)			
	Surface (A12	١									
Alaska Gle	-	,						nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te landsca	pe position r	nust be pre	esent			
Alaska Gle	yed Pores (A1	5)		4 Give details of o	olor chang	e in Remark	S				
Restrictive Laye	r (if precent):										
Type:	i (ii present).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):							riyane son Fresent	: 165 0 110 0		
Remarks: no hydric soil ii	adicators										
Tio flydric soil fi	iuicators										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficien	:)					Water Stained Leaves (B9)			
Surface W	. ,			Inundation V	isible on A	Aerial Image	ry (B7)	☐ Drainage Patterns (B10)			
☐ High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	-			Marl Deposit	. ,				of Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su				☐ Salt Depos			
Sediment Deposits (B2)				☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)		
Algal Mat							juitard (D3)				
Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	I Test (D5)		
Field Observa Surface Water		Voc C	No •	Danth (in the							
				Depth (inche	•						
Water Table P		Yes 🧠	No 💿	Depth (inche	es):		Wetlai	nd Hydrology Presen	t? Yes O No 🖲		
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	es):						
Describe Record	ded Data (stre	am gauge.	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:				
	(	55-,		,,		,					
Remarks:											
only one second	dary hydrology	/ indicator	observed								

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