WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 19-Jun-12			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_06			
	igator(s): JGK	ce, hummocks etc.): Hillside						
Local	relief (concave, convex, none): hummocky		Slope:	% / 20.	1 ° Elevation: 678			
Subre	gion : Southcentral Alaska	Lat.:	- <u> </u>	 14	Long.: -148.811885741 Datum: NAD83			
	ap Unit Name:		02.110000010		NWI classification: Upland			
	matic/hydrologic conditions on the site typical for this ti	me of ves	ar? Yes	● No ○	(If no, explain in Remarks.)			
		•	tly disturbed?		Normal Circumstances" present? Yes No			
		-	problematic?		eded, explain any answers in Remarks.)			
	•							
SUM	MARY OF FINDINGS - Attach site map show		mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No C		lo	the Com	unled Area			
	Hydric Soil Present? Yes ○ No ●)			npled Area Vetland? Yes ○ No ◉			
	Wetland Hydrology Present? Yes O No 🗨)	W	itnin a w	nin a Wetland? Yes ○ No ●			
Rem	arks:							
VEGI	ETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.				
		Absolute			Dominance Test worksheet:			
	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.		0			Total Number of Dominant			
2.		0	_ 📙		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 Cover:		_		Total % Cover of: Multiply by:			
Saı	bling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	:0	OBL Species x 1 =			
1.	Vaccinium uliginosum	_ 20	✓	FAC	FACW Species 20 x 2 = 40			
2.	Empetrum nigrum	30	_	FAC	FAC Species 70 x 3 = 210			
3.	Vaccinium vitis-idaea	5	-	FAC	FACU Species 1 x4 = 4			
4.	Betula nana	10	_	FAC	UPL Species0 x 5 =0			
5.								
	Rhododendron tomentosum		-	FACW	Column Totals: 91 (A) 254 (B)			
6.		0		FACW	Column Totals: 91 (A) 254 (B) Prevalence Index = B/A = 2.791			
7.				FACW	Prevalence Index = B/A =			
7. 8.		0 0		FACW	Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators:			
7. 8. 9.		0 0 0		FACW	Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
7. 8.		0 0 0 0		FACW	Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0			
7. 8. 9. 10.		0 0 0 0 0			Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
7. 8. 9. 10.	Total Cover: 50% of Total Cover:	0 0 0 0 0 0 85 42.5 20	of Total Cover		Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in			
7. 8. 9. 10. He	Total Cover: rb Stratum 50% of Total Cover:	0 0 0 0 0 85 42.5 20	of Total Cover		Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
7. 8. 9. 10. He 1. 2.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 85 42.5 20 5	of Total Cover		Prevalence Index = B/A = 2.791 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
7. 8. 9. 10. He 1. 2. 3.	Total Cover: <u>rb Stratum</u> S0% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 0 0 85 42.5 20 5 1	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. He l 1. 2. 3.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 0 85 42.5 20 5 1 0	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. He 1. 2. 3. 4.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 85 442.5 2C 5 1 0 0	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. Heel 1. 2. 3. 4. 5. 6. 7.	Total Cover: <u>rb Stratum</u> S0% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 85 42.5 2C 5 1 0 0 0	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. Heal 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 0 85 42.5 20 5 1 0 0 0 0	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. Head 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 0 85 42.5 20 5 1 0 0 0 0	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. Head 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 85 442.5 2C 5 1 0 0 0 0	of Total Cover		Prevalence Index = B/A =			
7. 8. 9. 10. Head 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: rb Stratum 50% of Total Cover: Rubus arcticus Lycopodium clavatum	0 0 0 0 0 85 442.5 2C 5 1 0 0 0 0		FACU	Prevalence Index = B/A =			

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SOIL Sampling Point: SW12_T29_06

Profile Description		the depth ne	eded to docun	nent the indicator or co	onfirm the abo		cators)			
(inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4					. –	-		Fibric Organics		
4-8	10YR	2/1	50					Silty Clay Loam	40% 2 x 4 in angular rocks 10% roots	
						- —				
¹Type: C=Con	centration. D=	Depletion.	. RM=Reduce	ed Matrix ² Location				annel. M=Matrix		
Hydric Soil In	ndicators:			Indicators for Pr	roblemation	c Hydric S	oils: ³			
Histosol or	Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder						
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen 9	Sulfide (A4)			Alaska Redox \	(S)					
☐ Thick Dark	Surface (A12)			-						
Alaska Gley	yed (A13)			³ One indicator of and an appropria				mary indicator of wetland hesent	ydrology,	
☐ Alaska Red	lox (A14)					•	•	CSCIIC		
	yed Pores (A15)		⁴ Give details of o	olor change	e in Remark	ks			
Restrictive Laye	r (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	es):									
HYDROLO	GY									
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indicat	tors (any one is	s sufficient	:)					Water Stair	ned Leaves (B9)	
Surface W	ater (A1)			☐ Inundation V	/isible on A	erial Image	ery (B7)	☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3)		
	er Table (A2)			Sparsely Veg	jetated Cor	ncave Surfa	ice (B8)			
Saturation	` '			Marl Deposit	s (B15)			Presence of Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su	ılfide Odor	(C1)		Salt Depos		
Sediment Deposits (B2)				Dry-Season \					Stressed Plants (D1)	
Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)	
	or Crust (B4)								quitard (D3)	
Iron Depos	. ,								graphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa			· (a)							
Surface Water	Present?		No 💿	Depth (inche	es):					
Water Table Pi	resent?	Yes 🤇	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 🗨	
Saturation Pres (includes capill		Yes 🗆	No •	Depth (inche	es):					
Describe Record	ded Data (strea	ım gauge,	monitor wel	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										

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