WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Denali Bo	rough Sampling Date: 06-Aug-13			
	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T160_02			
nvest	gator(s): CTS, AMD		Landform (hillside, terrace, hummocks etc.): Flat					
	relief (concave, convex, none): flat		Slope: % / 0.6 ° Elevation: 671					
	gion : Interior Alaska Mountains	l at :	63.371528505					
			03.37 1320300	9				
	ap Unit Name:		0 V	No ○	NWI classification: PEM1E			
Are \		ignificantly	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes Ided, explain any answers in Remarks.) Iormal Circumstances Present? Yes No Ided, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No							
	Hydric Soil Present? Yes ● No ○		Is the Sampled Area					
	Wetland Hydrology Present? Yes ● No ○		within a Wetland? Yes ● No ○					
Rem	7 7							
	ETATION - Use scientific names of plants. Liste stratum	st all spe Absolute % Cover	Dominant	•	Dominance Test worksheet: Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 2 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 2 (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:			
Sar	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species55 x 1 =55			
1.	Salix pulchra	5	✓	FACW	FACW Species 6 x 2 = 12			
2.	Salix richardsonii			FACW	FAC Species <u>1</u> x 3 = <u>3</u>			
_								
3.		0			FACU Species 0 x 4 = 0			
3. 4.		0			FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0			
		0			UPL Species 0 x 5 = 0			
4.		0			UPL Species $0 \times 5 = 0$ Column Totals: $62 \times (A) \times 70 \times (B)$			
4. 5.		0			UPL Species 0 x 5 = 0			
4. 5. 6.		0 0			UPL Species $0 \times 5 = 0$ Column Totals: $62 \times (A) \times 70 \times (B)$ Prevalence Index = B/A = 1.129 Hydrophytic Vegetation Indicators:			
4. 5. 6. 7. 8. 9.		0 0			UPL Species 0 x 5 = 0 Column Totals: 62 (A) 70 (B) Prevalence Index = B/A = 1.129 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
4. 5. 6. 7. 8. 9.		0 0 0 0 0 0			UPL Species $0 \times 5 = 0$ Column Totals: $62 \times 6 = 0$ Prevalence Index = B/A = 1.129 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0			
4. 5. 6. 7. 8. 9.		0 0 0 0 0 0	6 of Total Cover		UPL Species 0 $x 5 = 0$ Column Totals: 62 A			
4. 5. 6. 7. 8. 9. 10. Hei	Total Cover: <u>Stratum</u> So% of Total Cover: Carex aquatilis	0 0 0 0 0 0 0 0 0 3 20%	6 of Total Cover	OBL	UPL Species $0 \times 5 = 0$ Column Totals: 62×6 Prevalence Index = B/A = 1.129 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)			
4. 5. 6. 7. 8. 9. 10. Her 1. 2.	Total Cover: b Stratum 50% of Total Cover: Carex aquatilis Eriophorum angustifolium	0 0 0 0 0 0 0 0 6 3 20%		OBL OBL	UPL Species 0 x 5 = 0 Column Totals: 62 (A) 70 (B) Prevalence Index = B/A = 1.129 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0			
4. 5. 6. 7. 8. 9. 10. Hell 1. 2. 3.	Total Cover: 50% of Total Cover: Carex aquatilis Eriophorum angustifolium Comarum palustre	0 0 0 0 0 0 0 0 6 3 20% 35 10		OBL OBL	UPL Species $0 \times 5 = 0$ Column Totals: 62×6 Prevalence Index = B/A = 1.129 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)			
4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4.	Total Cover: 50% of Total Cover: Carex aquatilis Eriophorum angustifolium Comarum palustre Carex canescens (IAM)	0 0 0 0 0 0 0 0 3 20% 35 10 10		OBL OBL	UPL Species 0 x 5 = 0 Column Totals: 62 (A) 70 (B) Prevalence Index = B/A = 1.129 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0			
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4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover: 50% of Total Cover: Carex aquatilis Eriophorum angustifolium Comarum palustre Carex canescens (IAM)	0 0 0 0 0 0 0 0 3 35 10 10 1 0 0		OBL OBL	UPL Species 0 x 5 = 0 Column Totals: 62 (A) 70 (B) Prevalence Index = B/A = 1.129 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) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable)			
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SOIL Sampling Point: SW13_T160_02

		the depth ne	eded to docun	nent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6			100					Organic hemic			
6-20	10Y	4/1	100					Silty Clay Loam			
-		<u> </u>			_						
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Locatio		_		nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblematio	C Hydric So	oils: ³				
Histosol o	r Histel (A1)			Alaska Color C	hange (TA4	4) ⁴	✓	Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	Histic Epipedon (A2)				Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Dar	k Surface (A12))		30							
Alaska Gle	eyed (A13)			and an appropria				nary indicator of wetland h	ydrology,		
Alaska Re	dox (A14)						·				
☐ Alaska Gle	eyed Pores (A1	5)		⁴ Give details of o	olor change	е іп кетагк	S				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inc	hes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary India	cators (two or more are required)		
Primary Indica	ators (any one i	s sufficient)					Water Stair	ned Leaves (B9)		
✓ Surface V	Vater (A1)			☐ Inundation \	isible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)		
✓ High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized RI	nizospheres along Living Roots (C3)		
✓ Saturatio	. ,			Marl Deposit	s (B15)				f Reduced Iron (C4)		
Water Ma				Hydrogen Su				Salt Deposi			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
☐ Drift Dep				Other (Expla	in in Rema	rks)			c Position (D2)		
	or Crust (B4)							☐ Shallow Aq			
☐ Iron Depo	. ,								raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	i Test (D5)		
Field Observer Surface Water		Voc (No O	Donth (in ch	-a\. 2						
				Depth (inche	•						
Water Table I		Yes 🖲	No O	Depth (inche	es): 9		Wetlai	nd Hydrology Presen	t? Yes • No O		
Saturation Pro (includes cap		Yes 💿	No O	Depth (inche	es): 7						
Describe Recor	rded Data (stre	am gauge,	monitor wel	l, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											
	at adjacent por	nd is 3 in d	een								
Surface water	at aujacent poi	10 15 3 111 W	еер								

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