WETLAND D Project/Site: Susitna-Watana Hydroelectric Project		ATION DA		- Alaska Region a-Susitna Borough Sampling Date: 09-Jul-13			
			Matanaok				
Applicant/Owner: Alaska Energy Authority		l andform (hil	leide torrae				
Investigator(s): SLI, SCB			% / 6.5				
Local relief (concave, convex, none): <u>hummocky</u>		Slope:		100			
Subregion : Interior Alaska Mountains	Lat.: _	62.8591429		Long.:148.134886981 Datum: NAD83			
Soil Map Unit Name:				NWI classification: PSS1B			
Are climatic/hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map sho	significantly naturally pro	v disturbed? oblematic?	(If nee	<ul> <li>(If no, explain in Remarks.)</li> <li>ormal Circumstances" present? Yes ● No ○</li> <li>orded, explain any answers in Remarks.)</li> <li>s, transects, important features, etc.</li> </ul>			
Hydrophytic Vegetation Present? Yes   No	$\mathcal{L}$	la	the Som	plad Area			
Hydric Soil Present? Yes  Ves  No	C			npled Area Netland? Yes $\bullet$ No $\bigcirc$			
Wetland Hydrology Present? Yes 🔍 No		W	ithin a w	thin a Wetland? Yes $ullet$ No $igcup$			
Remarks: site has burned in the past - charcoal in soil pro		cies in the	plot.				
•	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species			
1. Picea mariana	15	$\checkmark$	FACW	That are OBL, FACW, or FAC: <u>3</u> (A)			
2.	0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.	0			Percent of dominant Species			
4.	0			That Are OBL, FACW, or FAC:(A/B)			
5	0			Prevalence Index worksheet:			
Total Cove	r: <u>15</u>			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	7.5 20%	of Total Cover	: <u>3</u>	OBL Species x 1 =			
1. Vaccinium uliginosum	40	$\checkmark$	FAC	FACW Species <u>26</u> x 2 = <u>52</u>			
2. Picea mariana	5		FACW	FAC Species <u>56.1</u> x 3 = <u>168.3</u>			
3. Rhododendron tomentosum	5		FACW	FACU Species <u>0.2</u> x 4 = <u>0.800</u>			
4. Betula nana	5		FAC	UPL Species x 5 =			
5. Empetrum nigrum	2		FAC	Column Totals: 82.3 (A) 221.1 (B)			
6. Alnus viridis	2		FAC				
7. Salix pulchra	1		FACW	Prevalence Index = B/A = <u>2.687</u>			
8. Rhododendron groenlandicum	1		FAC	Hydrophytic Vegetation Indicators:			
9. Rosa acicularis	0.1		FACU	✓ Dominance Test is > 50%			
10. Vaccinium vitis-idaea	0.1		FAC	✓ Prevalence Index is $\leq$ 3.0			
		of Total Cours		Morphological Adaptations <sup>1</sup> (Provide supporting data in			
Herb Stratum 50% of Total Cover:				Remarks or on a separate sheet)			
1. Equisetum sylvaticum			FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2. Cornus suecica			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3. Spinulum annotinum			FACU				
4.				Plot size (radius, or length x width) <u>10m</u>			
5				% Cover of Wetland Bryophytes			
6				(Where applicable)			
7				% Bare Ground			
8				Total Cover of Bryophytes60			
9							
10 Total Cover:	r: <u>6.1</u>	of Total Cover	: 1.22	Hydrophytic Vegetation Present? Yes • No ·			

Remarks: robust picmar, look like picgla from a cistance but red twig hairs. trace of unidentified willow

50% of Total Cover: <u>3.05</u> 20% of Total Cover: <u>1.22</u>

	latrix			dox Featu		cators)		
Depth (inches) Color (mois	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-4							Hemic Organic	
4-9							Sapric Organic	w charcoal and woody debris
9-12							Wood Debris	
12-15 2.5Y	3/1	100					Silty Clay Loam	w high organic content and charcoal
								= <sup>2</sup>
						<u>.</u>		
							·	
<sup>1</sup> Type: C=Concentration. D=	Depletion. F	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
Hydric Soil Indicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>		
Histosol or Histel (A1)			Alaska Color C		4		] Alaska Gleyed Without H	lue 5Y or Redder
✓ Histic Epipedon (A2)			Alaska Alpine swales (TA5)				Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue		Other (Explain in Remar	ks)
Thick Dark Surface (A12)								
Alaska Gleyed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland esent	hydrology,
Alaska Redox (A14)					•			
Alaska Gleyed Pores (A15	)		<sup>4</sup> Give details of c	olor chang	e in Remari	ks		
Restrictive Layer (if present):								
Туре:							Hydric Soil Present	t? Yes $ullet$ No $igcap$
Depth (inches):								
Remarks:	_	_		_				
of the Arrive to the head								
refusal at 15in bgs - cobbles.								
refusal at 15in bgs - cobbies.								
refusai at 15in Dgs - Coddies.								
refusai at 15in bgs - cobbies.								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indicat								icators (two or more are required)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is							Water Sta	ined Leaves (B9)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1)			Inundation V		-		Water Sta	ined Leaves (B9) Patterns (B10)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) I High Water Table (A2)			Sparsely Veg	etated Cor	-		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3)			Sparsely Veg	etated Cor s (B15)	ncave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) Image: High Water Table (A2) Saturation (A3) Water Marks (B1)			Sparsely Veg	etated Cor s (B15) Ifide Odor	ncave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
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