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WEILAND DE Project/Site: Susitna-Watana Hydroelectric Project		orough/City:	Denali Bo	- Alaska Region rough Sampling D	pate: 06-Aug-13							
· · · · · ·			Benair Bo									
Applicant/Owner: Alaska Energy Authority		a sa al f a suas (la il		Sampling Point:	SW13_T148_03							
Investigator(s): <u>SLI, EAC</u>				e, hummocks etc.): Toeslope								
Local relief (concave, convex, none): hummocky		Slope:	_% /	120								
Subregion : Interior Alaska Mountains	Lat.: 6	3.38968360	36	Long.: -148.595952393	Datum: NAD83							
oil Map Unit Name: NWI classification: PSS1B												
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)												
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.												
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		The Sampled Area $res \bullet No \bigcirc$										
Wetland Hydrology Present? Yes No within a Wetland? Yes No Remarks: bright green signature in aerial between obvious forest patches. shrubby, little standing water. closer to road and across road are PEM1F caraqu- dominated wetlands, possibly too small to map seperately. Wetland? Yes No												
VEGETATION - Use scientific names of plants. Li	st all spe	<u>cies in the</u>	plot.									
	Absolute	Dominant	Indicator	Dominance Test worksheet:								
1.	<u>% Cover</u>	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	<u>8</u> (A)							
2				Total Number of Dominant								
3.	0			Species Across All Strata:	<u>9</u> (B)							
	0			Percent of dominant Species That Are OBL, FACW, or FAC:	88.9% (A/B)							
5.	0											
Total Cover	: _0			Prevalence Index worksheet: Total % Cover of: Mu	ltiply by:							
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0		(1 = 9.1							
	7	\checkmark	FACU		2 = 24.40							
1. Picea glauca 2. Betula nana	7		FACU		3 = 102.3							
	7		FAC		4 = 28							
4. Dasiphora fruticosa	5		FAC	UPL Species 0 ×	x 5 = 0							
5. Salix reticulata	5		FAC									
6. Picea mariana	5	\checkmark	FACW	Column Totals: <u>62.4</u> (A) <u>163.8</u> (B)							
7. Salix barclayi	4		FAC	Prevalence Index = B/A =	2.625							
8. Salix pulchra	3		FACW	Hydrophytic Vegetation Indicato	rs:							
9. Empetrum nigrum	3		FAC	✓ Dominance Test is > 50%								
10. Andromeda polifolia (IAM)	1		OBL	✓ Prevalence Index is \leq 3.0								
Total Cover Herb Stratum 50% of Total Cover:	: 9.4	Morphological Adaptations ¹ (Pr Remarks or on a separate sheet										
1. Carex aquatilis	7	\checkmark	OBL	Problematic Hydrophytic Vegeta	ation ¹ (Explain)							
2. Equisetum arvense	3	\checkmark	FAC	¹ Indicators of hydric soil and wetland	l hydrology must							
3. Equisetum variegatum	3	\checkmark	FACW	be present, unless disturbed or prob	lematic.							
4. Parnassia palustris	1		FACW	Plot size (radius, or length x width)	10							
5. Equisetum fluviatile	1		OBL	% Cover of Wetland Bryophytes	<u>10m</u>							
6. Spiranthes romanzoffiana	0.1		OBL	(Where applicable)								
7. Equisetum palustre	0.1		FACW	% Bare Ground	5							
8. Platanthera aquilonis	0.1		FACW	Total Cover of Bryophytes	90							
9. Bistorta vivipara	0.1		FAC									
10	0			Hydrophytic								
Total Cover 50% of Total Cover:		of Total Cover	3.08	Vegetation Present? Yes • No	0 ()							

Remarks: 2% each collected sedges. 1% vacvit, leddec. trace vacoxy, pedicularis

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
0-9	7.5YR	3/2	100			1700	200	Fibric Organics			
9-16	7.5YR	3/1	100					Hemic Organics			
16-18		3/1	100		-			Silt Loam	high organic content		
¹ Type: C=Con	centration. D=	Depletion.	RM=Reduc	ed Matrix ² Location		-		nnel. M=Matrix			
Hydric Soil Ir	dicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epipe	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remarl	<s)< td=""></s)<>		
Thick Dark	Surface (A12))		³ One indicator of	bydropby	ic vegetatio	n one prin	nary indicator of wotland h	a a construction of the co		
Alaska Gley				and an appropriat				nary indicator of wetland h esent	iyulology,		
Alaska Red	. ,			⁴ Give details of co	olor chang	e in Remark	s				
Alaska Gle	ed Pores (A1)					-				
Restrictive Laye	r (if present):										
Type:).							Hydric Soil Present	? Yes $ullet$ No $igodom$		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one i	s sufficient)					Water Stai	ned Leaves (B9)		
Surface W	. ,			Inundation V	isible on A	erial Imager	ту (В7)	Drainage F	Patterns (B10)		
✓ High Wate	()			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	• •			_	of Reduced Iron (C4)		
Water Mar				Hydrogen Su				Salt Depos			
	Deposits (B2)			Dry-Season V		. ,			Stressed Plants (D1)		
Drift Depo	. ,			Other (Explai	n in Rema	rks)			ic Position (D2)		
Iron Depo	or Crust (B4)							_	quitard (D3) graphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa											
Surface Water		$_{\sf Yes}$ \bigcirc	No 🖲	Depth (inche	s):						
Water Table P			No 〇	Depth (inche			Wetlar	nd Hydrology Presen	it? Yes 🖲 No 🔿		
Saturation Pre	sent?		No O	Depth (inche							
(includes capillary fringe) 100 0 Deput (inclus). 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											