WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date	: 05-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point:	SW13_T201_11
Investigator(s): SLI, EAC	Landform (hill	side, terrace, hummocks etc.):	Footslope	
Local relief (concave, convex, none): hummocky	Slope: 0.0	% / 0.0 ° Elevation: 681	-	
Subregion : Interior Alaska Mountains Lat.	63.362496972	Long.: -148.954517	126	Datum: WGS84
Soil Map Unit Name:		NWI classi	fication: PSS1	IB
	ear? Yes intly disturbed? y problematic?	 No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ 	present? Ye	es • No ()
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, impor	tant features	s. etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

Abr		Absol	luto	Dominant	ant Indicator	Dominance Test worksheet:		
		% Co		Species?	Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: (A)		
2.		-	0			Total Number of Dominant Species Across All Strata: 7 (B)		
3.			0					
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)		
5.			0			Prevalence Index worksheet:		
	Total Cover:		0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20% c	of Total Cover:	0	OBL Species $1 \times 1 = 1$		
1.	Betula glandulosa		50	\checkmark	FAC	FACW Species 31 x 2 = 62		
2.	Salix pulchra		5		FACW	FAC Species <u>85</u> x 3 = <u>255</u>		
3.	Ledum decumbens		20	\checkmark	FACW	FACU Species <u>3</u> x 4 = <u>12</u>		
4.	Picea glauca	_	3		FACU	UPL Species x 5 =		
5.	Empetrum nigrum		5		FAC	Column Totals: 120 (A) 330 (B)		
6.	Vaccinium vitis-idaea	_	5		FAC			
7.	Vaccinium uliginosum	_	20	\checkmark	FAC	Prevalence Index = B/A = <u>2.750</u>		
8.		_	0			Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
Total Cover: 108						Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 54				of Total Cover:	21.6	Remarks or on a separate sheet)		
1.	Rumex arcticus	_	3	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Rubus chamaemorus	_	3	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex bigelowii		2	\checkmark	FAC	be present, unless disturbed or problematic.		
4.	Arctagrostis latifolia	_	2	\checkmark	FACW	Plot size (radius, or length x width) 10m		
5.	Eriophorum angustifolium	_	1		OBL	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Petasites frigidus		1		FACW	(Where applicable)		
7.		_	0			% Bare Ground30		
8.		_	0			Total Cover of Bryophytes30		
9.		_	0					
		_	0			Hydrophytic		
Total Cover:12						Vegetation		
	50% of Total Cover:	6	20% c	of Total Cover:	2.4	Present? Yes \bullet No \bigcirc		
Remarks: 30% lichen cover								

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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	7.5YR	2.5/1	100					Fibric Organics	
5-8	7.5YR	3/2	100					Hemic Organics	
8-12	5Y	4/1	100				. <u> </u>	Clay Loam	No redox features.
	51	7/1	100						No redux realures.
					-	-		<u>-</u>	
¹ Type: C=Cor	ncentration. D	=Depletion	. RM=Redu	ced Matrix ² Location		-		nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³		
Histosol o	r Histel (A1)			Alaska Color Cl	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	s)
Thick Darl	< Surface (A12	!)		3 One indicator of	bydropbyd	tic voqotati	on ono prim	nary indicator of wetland h	verslogv
Alaska Gle				and an appropriat					yarology,
Alaska Ree				⁴ Give details of c	olor chang	o in Pomar	kc		
Alaska Gle	eyed Pores (A1	.5)					K5		
Restrictive Laye	er (if present)								
Type: acti	ve layer							Hydric Soil Present	? Yes $ullet$ No $igodom$
Depth (incl	nes): 17								
Remarks:									
HYDROLO	GY								
Wetland Hyd		ators:						Secondary Indi	cators (two or more are required)
Primary Indica	itors (any one	is sufficien	t)						ned Leaves (B9)
Surface V	/ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	🗌 Drainage F	atterns (B10)
High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ice (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation				Marl Deposit					f Reduced Iron (C4)
U Water Ma				Hydrogen Su				Salt Depos	
	Deposits (B2)			Dry-Season \				_	Stressed Plants (D1)
Drift Dep				Other (Explai	in in Rema	rks)			ic Position (D2)
	or Crust (B4)							Shallow Ac	
Iron Depo	. ,	`							raphic Relief (D4)
Field Observa	oil Cracks (B6))						I FAC-neutra	i Test (D5)
Surface Wate		Yes () No 🖲	Depth (inche	e).				
					,		Watlar	nd Hydrology Presen	t? Yes 🖲 No 🔿
Water Table F Saturation Pre				Depth (inche	s): 7		wettar	ia nyarology Presen	tr tes S No C
(includes capi	llary fringe)		No ○ 	Depth (inche					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									