WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	prough Sampling Date: 06-Aug-13
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T160_03
	igator(s): CTS, AMD		Landform (hil	lside, terrac	ee, hummocks etc.): Flat
	relief (concave, convex, none): flat		Slope:	% / 0.9	
	gion : Interior Alaska Mountains	l at ·	63.37069094		Long.: -148.820902586 Datum: NAD83
		Lat	03.37009094	17	110.02002000
	ap Unit Name:		0 V	● No ○	NWI classification: PSS1B
Are \	imatic/hydrologic conditions on the site typical for this vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significantl naturally p wing sar	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area
	Hydric Soil Present? Yes ● No	\supset			-
	Wetland Hydrology Present? Yes No	<u> </u>	W	ithin a W	etiand? les control
VEG	ETATION - Use scientific names of plants. L				Dominance Test worksheet:
Tre	ee Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species
1.	oc otracam_	0			That are OBL, FACW, or FAC:
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 3 x 1 = 3
1.	Salix richardsonii	30	~	FACW	FACW Species 42 x 2 = 84
2.	Salix reticulata			FAC	FAC Species 117 x 3 = 351
3.	Vaccinium uliginosum	60	. — <u> </u>	FAC	FACU Species 0.1 x 4 = 0.400
4.	Vaccinium vitis-idaea	1		FAC	UPL Species 0 x 5 = 0
5.	Dasiphora fruticosa	15		FAC	Column Totals: <u>162.1</u> (A) <u>438.4</u> (B)
6.	Salix pulchra	2		FACW	
7.	Salix alaxensis	1		FAC	Prevalence Index = B/A = 2.705
8.		0	. \square		Hydrophytic Vegetation Indicators:
9.		0	. 📃		✓ Dominance Test is > 50%
10.		0	. \square		✓ Prevalence Index is ≤3.0
He	Total Cove rb Stratum 50% of Total Cover: _		% of Total Cove	r: <u>28.8</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	3		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Calamagrostis canadensis			FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Parnassia palustris			FACW	be present, unless disturbed or problematic.
4.	Carex membranacea			FACW	Plot size (radius, or length x width)
5.	Rumex arcticus Carex modia	1		FACW	% Cover of Wetland Bryophytes
6.	Carex scirpoidea			FACW FACU	(Where applicable)
7. 8.	Carex scirpoidea			1 100	% Bare Ground
					Total Cover of Bryophytes
٦.		0			Hydronhytic
10					Hydrophytic Vegetation
10.	Total Cove	r: 18.1			Present? Yes • No O

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SOIL Sampling Point: SW13_T160_03

Profile Description: (Des	Matri	<u> </u>		Red	ox i cata	res		_	
(inches) Co	lor (moist)	_%	Color (m	noist)	<u>%</u>	Type ¹	_Loc_ ²	Texture	Remarks
0-2		100						Organic hemic	_
2-13 5	Y 3/1	85	7.5YR	4/6	15	C	PL	Silt Loam	Very fibric
13-16 5	Y 3/2	100						Sand	
									-
					-		-	-	
Type: C=Concentra	ion. D=Depl	etion. RM=Redu	ced Matrix	² Location	: PL=Pore	- ——— e Lining. RC	=Root Cha	annel. M=Matrix	-
Hydric Soil Indicate	ors:		Indicat	ors for Pro	oblematic	: Hvdric S	oils:		
Histosol or Histel				ka Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (` '			ka Alpine sv		-		Underlying Layer	ac or or reader
Hydrogen Sulfide	-			ka Redox W	•	•		Other (Explain in Remar	ks)
Thick Dark Surface	. ,								
Alaska Gleyed (A:	.3)			ndicator of lappropriate				mary indicator of wetland I	hydrology,
✓ Alaska Redox (A1					·	•	•	esent	
Alaska Gleyed Po	res (A15)		⁴ Give o	letails of co	lor change	e in Remark	KS .		
estrictive Layer (if pr	-								
	ctivo lavor							Hydric Soil Present	:? Yes 💿 No 🔾
Type: silt loam, a	•								
Depth (inches): 2, emarks:	•								
Depth (inches): 2,	•								
Depth (inches): 2, emarks: YDROLOGY	16								
Depth (inches): 2, emarks: YDROLOGY Vetland Hydrology	Indicators:								icators (two or more are required)
Depth (inches): 2, emarks: YDROLOGY Vetland Hydrology Primary Indicators (ar	Indicators:							Water Sta	ined Leaves (B9)
Depth (inches): 2, emarks: YDROLOGY Vetland Hydrology Primary Indicators (ar Surface Water (A	Indicators: ay one is suff 1)			undation Vi		_		Water Sta Drainage	ined Leaves (B9) Patterns (B10)
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Depth (inches): 2, emarks: YDROLOGY Vetland Hydrology Primary Indicators (an Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposi	Indicators: ny one is suff 1) e (A2)		☐ Sp ☐ Ma ☐ Hy ☐ Dr	arsely Vege arl Deposits drogen Sul y-Season W	etated Con (B15) fide Odor (Vater Table	cave Surfac		Water Sta Drainage Oxidized F Presence Salt Depo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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