WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 31-Jul-13			
Applica	int/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T205_11			
	gator(s): SLI, EAC	side. terrac	ce, hummocks etc.): Flat					
	elief (concave, convex, none): flat	% / 0.0						
		L at :						
_	ion : Interior Alaska Mountains	Lal	63.369091153	3				
	p Unit Name:		,	<u> </u>	NWI classification: PSS1B			
Are V Are V	egetation , Soil , or Hydrology r	ignificantly naturally pr ving sam	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
			Is	Is the Sampled Area				
	^ ^			within a Wetland? Yes No				
	Wetland Hydrology Present? Yes ● No ○							
	arks: numerous atv trails through area, rutting and er		ecies in the		Dominance Test worksheet:			
Tree	e Stratum_	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.	Picea glauca	10	✓	FACU	That are OBL, FACW, or FAC:5(A) Total Number of Dominant			
2.		0			Species Across All Strata:6(B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species <u>0.1</u> x 1 = <u>0.1</u>			
1.	Picea glauca	5		FACU	FACW Species 20 x 2 = 40			
	Salix pulchra	10	✓	FACW	FAC Species <u>58.1</u> x 3 = <u>174.3</u>			
3.	Salix reticulata	7		FAC	FACU Species <u>15.1</u> x 4 = <u>60.40</u>			
4.	Salix richardsonii	1		FACW	UPL Species			
5.	Betula glandulosa	10	✓	FAC	Column Totals: <u>93.3</u> (A) <u>274.8</u> (B)			
6.	Empetrum nigrum	5		FAC				
7.	Ledum decumbens	5		FACW	Prevalence Index = B/A = 2.945			
8.	Arctostaphylos rubra	3		FAC	Hydrophytic Vegetation Indicators:			
9.	Betula nana	3		FAC	✓ Dominance Test is > 50%			
10.	Vaccinium uliginosum	20	✓	FAC	✓ Prevalence Index is ≤3.0			
Her	Total Cover: 50% of Total Cover:		6 of Total Cover	: 13.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Poa alpina	0.1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Carex bigelowii		✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus			FACW	be present, unless disturbed or problematic.			
4.	Equisetum arvense	5		FAC	Plot size (radius, or length x width)			
5.	Rubus chamaemorus			FACW	% Cover of Wetland Bryophytes			
6.	Juncus castaneus	2		FACW	(Where applicable)			
7.	Alopecurus aequalis	0.1		OBL FAC	% Bare Ground <u>15</u>			
	Agrostis scabra	0.1		FAC	Total Cover of Bryophytes 60			
9.		0						
10.					Hydrophytic Vegetation			
			of Total Cover:	2.86	Present? Yes No			
					1			
Rem	arks: plot includes atv trail - bare ground w trace gra			2.86	Fresent: Tes o No o			

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SOIL Sampling Point: SW13 T205 11

Profile Descripti	ioni (Dossribo to	the depth no	andad to docu	mont the inc	licator or con	firm the ab	conco of indic	cators)		10 54415_1205_11		
	ion: (Describe to	the depth ne Matrix	eded to docu	тепі ине ин		rirm the ab ox Featu		cators)				
Depth (inches)	Color (m			Color (m		%	Type ¹	Loc ²	Texture	Remarks		
0-3	5YR	3/2	100	00.0. (.,,,,		Fibric Organics			
3-6	5YR	2.5/1	– 50						Sapric Organics			
				2.5YR	1/6	10				FOV 7 F VD C/9 cane many linings/ling week a		
6-14	10B	4/1		2.51K	4/6			PL	Fine Sandy Loam	5% 7.5 YR 6/8 conc. pore linings/lvg root c		
							-					
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduc	ed Matrix	² Location	: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	c Hydric S	oils: ³				
	r Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,				ka Alpine sv		-		Underlying Layer			
	Sulfide (A4)			Alasl	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	ss)		
Thick Dark	Surface (A12	2)		_								
Alaska Gle	yed (A13)						cic vegetation in position in the position in		mary indicator of wetland h	ydrology,		
✓ Alaska Red	dox (A14)						•	•	CSCITC			
Alaska Gle	yed Pores (A1	15)		4 Give o	letails of co	lor chang	e in Remark	KS				
Restrictive Laye	er (if present)	:										
Type: activ									Hydric Soil Present	? Yes ● No ○		
Depth (inch	•								•			
Remarks:												
10% grav in 6-	14in laver.											
1070 9.41 0	ia, c											
HYDROLO		-4							0 1 7 11			
Wetland Hyd			٠,							cators (two or more are required)		
Primary Indica		is sumciem	.)		\ /:-	-:l-l A		(DZ)	Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
Surface W	. ,						erial Image		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
☐ High Water Table (A2)☐ Saturation (A3)							ncave Surfa	ce (B8)		of Reduced Iron (C4)		
☐ Saturation (A3) ☐ Water Marks (B1)				☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Odor (C1)					Salt Depos	` '		
	Dry-Season Water Table (C2)						Stressed Plants (D1)					
Sediment Deposits (B2) Drift Deposits (B3)					y-season w her (Explair					ic Position (D2)		
				0.	ilei (Expiaii	i iii Keiiia	iks)		✓ Shallow Ac	` '		
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)										graphic Relief (D4)		
	oil Cracks (B6)								Il Test (D5)		
Field Observa		,										
Surface Water	r Present?	Yes C	No •	De	epth (inches	s):						
Water Table P	Present?	Yes C	No •	Do	epth (inches	٠,٠		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				De	epui (inches	s):		Tr Ccia	na riyarology r resen	t. 163 © 110 ©		
(includes capi		Yes 🔾	No 💿	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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