WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T49_06
	gator(s): SLI, KMK		L	andform (hill	side, terrac	e, hummocks etc.): Flat
	relief (concave, convex, none): hummocky			Slope:	% / 1.4	
	gion : Interior Alaska Mountains	1	at : 6	· 32.813954797		Long.: -148.420612389 Datum: NAD83
			ai <u>0</u>	12.013934797	1	
	ap Unit Name:				No ○	NWI classification: PSS4B
Are \	matic/hydrologic conditions on the site typical for th /egetation □ , Soil □ , or Hydrology □ /egetation □ , Soil ☑ , or Hydrology □ MARY OF FINDINGS - Attach site map s	signif natur	icantly ally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No No Control of the cont
	C.	\circ		Is	the Sam	pled Area
	,				thin a W	
Rem	7 - 37	<u> </u>				
	ETATION - Use scientific names of plants	Abs	l spec	cies in the	•	Dominance Test worksheet: Number of Dominant Species
1.	Picea mariana		20	✓	FACW	That are OBL, FACW, or FAC:
2.						Total Number of Dominant
3.						Species Across All Strata:
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		_	0			
	Total Co	ver:	20	_		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	oling/Shrub Stratum 50% of Total Cover:	10	20% (of Total Cover:	4	OBL Species $0 \times 1 = 0$
			-	✓		FACW Species 70 x 2 = 140
1. 2.	Picea mariana				FACW	FAC Species 43 x 3 = 129
3.	Salix pulchra Vaccinium uliginosum		10	✓	FAC	FACU Species $0 \times 4 = 0$
4.	Vaccinium vitic ideas		7		FAC	UPL Species 0 x 5 = 0
5.	Empetrum nigrum		5		FAC	
6.	Rhododendron tomentosum		5		FACW	Column Totals:
7.	Betula nana	_	5		FAC	Prevalence Index = B/A = 2.381
8.	Rhododendron groenlandicum		1		FAC	Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
Hei	Total Co	_	65 20%	of Total Cover	: 13	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum sylvaticum		7	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus		10	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex bigelowii		5		FAC	be present, unless disturbed or problematic.
4.	Petasites frigidus		3		FACW	Plot size (radius, or length x width) 10m
5.	Cornus suecica		3		FAC	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6.						(Where applicable)
			0			% Bare Ground2
			0			Total Cover of Bryophytes <u>85</u>
9.						
			0			Hydrophytic
10.	_ : -	VOPI	28			Vegetation
10.	Total Co 50% of Total Cover:	_		of Total Cover	5.6	Present? Yes • No •

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SOIL Sampling Point: SW12_T49_06

	on: (Describe to t	the depth nee 1atrix	eded to docur	nent the ind		firm the ab		ators)		
Depth (inches)	Color (mo		<u></u> %	Color (m		%	Type ¹	_Loc_2	Texture	Remarks
0-2	Coloi (illo	ist)	70	Color (III	oist)		Туре	LUC	Fibric Organics	common roots
2-4									Hemic Organics	common roots
4-5						-			Sapric Organics	common roots
	2.57	4/2		7.575						
5-16		4/2		7.5YR	4/4	20	C	PL	Sandy Loam	addtl matrix: 10YR3/4 at 5%, 5% gravels, f
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc	ed Matrix	² Location:	PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:			Indicate	ors for Pro	blemati	Hydric So	oils:		
Histosol or	Histel (A1)			Alask	a Color Cha	ange (TA	1)4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alask	a Alpine sv	vales (TA	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)			✓ Alask	a Redox W	ith 2.5Y H	lue		Other (Explain in Remark	rs)
Thick Dark	Surface (A12)			3 One in	dicator of b	n (droph) d	ic vogotatio	n one prin	nary indicator of wetland h	wdralogy
Alaska Gley							e position r			lydi ology,
Alaska Red	ox (A14) /ed Pores (A15	5)		4 Give d	etails of co	or chang	e in Remark	S		
Restrictive Layer										
Type:	i (ii present).								Hydric Soil Present	? Yes ● No O
Depth (inch	es):								riyaric son r resent	163 0 110 0
Remarks:										
refusal at 16in.										
rerusar de 10iii.										
HYDROLOG	3 V									
HYDROLOG Wetland Hydr		tors:							Secondary Indi	cators (two or more are required)
Wetland Hydr	ology Indica									cators (two or more are required)_ ned Leaves (B9)
	ology Indica ors (any one i				undation Vi	sible on A	erial Image	ry (B7)	Water Stai	ned Leaves (B9)
Wetland Hydro	ology Indica ors (any one in ater (A1)						erial Image		Water Stai Drainage F	
Primary Indicat Surface Wa	ology Indica ors (any one i ater (A1) r Table (A2)			✓ Spa		tated Cor	-		─────────────────────────────────────	ned Leaves (B9) Patterns (B10)
Primary Indicat Surface Wa	ology Indica ors (any one in ater (A1) r Table (A2) (A3)			✓ Spa	arsely Vege	tated Cor (B15)	ncave Surfac		─────────────────────────────────────	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrony Primary Indicat ☐ Surface Work ✓ High Wate ✓ Saturation ☐ Water Mar	ology Indica ors (any one in ater (A1) r Table (A2) (A3)			Spa	arsely Vege rl Deposits	tated Cor (B15) îde Odor	ncave Surfac		Water Stai Drainage F Oxidized R Presence o Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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