WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Bor	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Jun-12			
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T24_06			
Investi	gator(s): SLI, LMF	side, terrac	e, hummocks etc.): Knob						
Local	relief (concave, convex, none): concave		— SI	ope: 8.7	% / 5.0	° Elevation: 807			
	gion : Copper River Basin	l at		.663329908		Long.: -147.398429977 Datum: WGS84			
		·	02	.003323300		•			
	ap Unit Name:				No ○	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for the fregetation , Soil , or Hydrology (egetation , Soil , or Hydrology) MARY OF FINDINGS - Attach site map site	signification si	antly d y prob	isturbed? lematic?	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			
	,,	o		Is the Sampled Area					
	•	•		within a Wetland? Yes ○ No ●					
Dom	, 0,		-1-1			to a discount labor many manifestation to a second			
	earks: site atop a small knob. ~5 degree slope alor		speci		plot.	Dominance Test worksheet:			
Tre	e Stratum	% Co		Species?	Status	Number of Dominant Species			
1.	Picea glauca		15	\checkmark	FACU	That are OBL, FACW, or FAC: 2 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 40.0% (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Co	ver:1	5			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5	20% of Total Cover:		3	OBL Species 0 x 1 = 0			
1.	Picea glauca		5		FACU	FACW Species 0 x 2 = 0			
2.	Betula glandulosa		30	<u></u>	FAC	FAC Species 75 x 3 = 225			
3.	Vaccinium vitis-idaea		15	✓	FAC	FACU Species 36 x 4 = 144			
4.	Spiraea stevenii		3		FACU	UPL Species 0 x 5 = 0			
5.	Ledum groenlandicum		7		FAC	Column Totals: 111 (A) 369 (B)			
6.	Empetrum nigrum		10		FAC				
7.	Vaccinium uliginosum		10		FAC	Prevalence Index = B/A = 3.324			
8.	Betula neoalaskana		5		FACU	Hydrophytic Vegetation Indicators:			
9.	Salix glauca		3		FAC	Dominance Test is > 50%			
10.	Rosa acicularis		1		FACU	☐ Prevalence Index is ≤3.0			
Hei	Total Co b Stratum 50% of Total Cover:	17.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Spinulum annotinum		3	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Cornus canadensis		3	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Chamerion angustifolium		1		FACU	be present, unless disturbed or problematic.			
4.			0			Plot size (radius, or length x width) 10m			
5.		_	0			Plot size (radius, or length x width)			
6.			0			(Where applicable)			
7.			0			% Bare Ground			
8.			0			Total Cover of Bryophytes 30			
9.			0						
10.			0	Ш		Hydrophytic			
	Total Co 50% of Total Cover:			Total C	4.5	Vegetation Present? Yes ○ No ●			
					1.4				

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SOIL Sampling Point: SW12_T24_06

Profile Descript Depth		the depth n	eeded to docu	ment the indicator or c	onfirm the ab		cators)		
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-2								Fibric Organics	
2-3	10YR	3/2	98					Silty Clay	2% charcoal
3-6	7.5YR	3/4	100					Loamy Sand	inclusions of 10YR 5/4
6-7	10YR	4/2	100					Loamy Sand	· · · · · · · · · · · · · · · · · · ·
7-10	7.5YR	4/6	100					Loamy Sand	
10-18	10YR	3/4						Loamy Sand	
								-	-
¹Type: C=Co	ncentration. D	=Depletior	ı. RM=Reduc	ed Matrix ² Location	on: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	-
Hydric Soil I	indicators:			Indicators for F	roblemati	c Hydric S	oils: ³		
Histosol o	r Histel (A1)			Alaska Color (Change (TA	4)4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epip	pedon (A2)			Alaska Alpine	swales (TA	5)	Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remark	ks)
Thick Darl	k Surface (A12)		3 One indicator of	of hydronhyd	tic vegetatio	n one prir	mary indicator of wetland h	avdrology
	eyed (A13)			and an appropri					iyarology,
Alaska Re				4 Give details of	color chang	e in Remark	(S		
	eyed Pores (A1								
Restrictive Lay	er (if present):								0 0
Type: Depth (incl	hoo).							Hydric Soil Present	:? Yes ○ No •
Берит (пте	1103).								
HYDROLO	GY								
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one	is sufficier	it)					Water Stai	ined Leaves (B9)
Surface Water (A1)				Inundation		_			Patterns (B10)
	er Table (A2)			Sparsely Ve		ncave Surfa	ce (B8)		Chizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposi	. ,				of Reduced Iron (C4)
Water Ma				☐ Hydrogen S				Salt Depos	r Stressed Plants (D1)
☐ Sediment Deposits (B2) ☐ Drift Deposits (B3)				☐ Dry-Season☐ Other (Expl					ic Position (D2)
	. ,			□ Other (Expl	alli ili Kellia	rks)			, ,
	Soil Cracks (B6))						_	al Test (D5)
Field Observa		·							
Surface Wate	r Present?	Yes	No ●	Depth (inch	nes):				
Water Table F	Present?	Yes	No ●	Depth (inch	ies).		Wetla	nd Hydrology Presen	nt? Yes O No 💿
Saturation Pre			No •	. ,	•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(includes capi				Depth (inch ell, aerial photos, pro		oction) if av	ailable		
Describe Recor	rueu Data (Sire	ani gauge	, monitor we	ii, aeriai priotos, pri	evious irispe	cuon) n ave	aliable.		
Remarks:									
no wetland hyd	drology indicat	ors							

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