WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T154_04
Investigator(s): BAB	e, hummocks etc.): drainage			
Local relief (concave, convex, none): concave		Slope: 3.5	% / 2.0	° Elevation: 1132
Subregion : Interior Alaska Mountains		63.237132104		Long.: -148.371035904 Datum: WGS84
Soil Map Unit Name:	_			NWI classification: PUSC
Are climatic/hydrologic conditions on the site typical for this tir	me of vear	2 Yes	● No ○	
		y disturbed?		Iormal Circumstances" present? Yes No No
		oblematic?		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show			·	
Hydrophytic Vegetation Present? Yes ● No ○				
Hydric Soil Present? Yes ● No ○	ı			pled Area
Wetland Hydrology Present? Yes No ○	1	wi	thin a W	etland? Yes ● No ○
, 0,				. F. Chamanian Managaba danian na alianan atau atau dani
Remarks: Wide drainage, recently ponded but the beaver water running parallel to stream	dam broke	e. Small active	e cnannei <	s it running through drainage. Targe area or ponded
VECETATION Has a continue of plants 1:		ata a ta Alaa	-1-4	
VEGETATION -Use scientific names of plants. Lis	st all spe	ecies in the	piot.	
	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum 1.	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
				Total Number of Dominant
2				Species Across All Strata: (B)
				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	
1				FACW Species <u>0.1</u> x 2 = <u>0.200</u> FAC Species <u>0</u> x 3 = <u>0</u>
2.				FACU Species 0 x 4 = 0
3				UPL Species 0 x 5 = 0
		П		
5. 6.		\Box		Column Totals: <u>1.3</u> (A) <u>1.400</u> (B)
7.	0			Prevalence Index = B/A =1.077_
8.	0			Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10.	0			✓ Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:		6 of Total Cover	: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Ranunculus gmelinii	0.1		FACW	✓ Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex aquatilis	1	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Hippuris vulgaris	0.1		OBL	be present, unless disturbed or problematic.
4. Sparganium hyperboreum	0.1		OBL	Plot size (radius, or length x width) 10m
5.				Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes
6	0			(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9				
10.				Hydrophytic
Total Cover: 50% of Total Cover:0		of Total Cause	0.30	Vegetation Present? Yes ● No ○
	<u>.05</u> 20%	or rotal cover:	0.26	1.000.00
Remarks: sparsely vegetated ponded area.				

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Profile Description: (I	Describe to the depth Matrix	needed to doc	ument the indicator or co	nfirm the ab		cators)				
,, i ,	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
								-		
				-						
				-			-			
¹ Type: C=Concent	ration. D=Depletion	on. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RO	=Root Cha	nnel. M=Matrix			
Hydric Soil Indica	ators:		Indicators for Pr	oblemati	c Hydric S	oils: ³				
Histosol or Hist	el (A1)		Alaska Color Cl	nange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipedon	(A2)		Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen Sulfic	de (A4)		Alaska Redox V	With 2.5Y I	Hue	✓	Other (Explain in Remark	rs)		
Thick Dark Sur	face (A12)		3 0 :	la calca a la c				and and a second		
Alaska Gleyed ((A13)		and an appropriat				nary indicator of wetland hesent	lydrology,		
Alaska Redox (•		4 Give details of co	olor chang	o in Domarl					
Alaska Gleyed I	Pores (A15)		· Give details of Co	DIOI CHANG	e iii keiiiair	KS .				
Restrictive Layer (if	present):									
Type:							Hydric Soil Present	? Yes • No O		
Depth (inches):										
HYDROLOGY										
Wetland Hydrolog	gy Indicators:						Secondary Indi	cators (two or more are required)		
Primary Indicators		ent)						ned Leaves (B9)		
✓ Surface Water	` '		Inundation V	isible on A	erial Image	ry (B7)	✓ Drainage F	Patterns (B10)		
High Water Ta			✓ Sparsely Veg	etated Co	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3	•		Marl Deposits					f Reduced Iron (C4)		
Water Marks (I	,		☐ Hydrogen Su		` '		Salt Depos			
Sediment Depo			☐ Dry-Season \					Stressed Plants (D1)		
Drift Deposits	` '		U Other (Explai	in in Rema	rks)			ic Position (D2)		
☐ Algal Mat or Ci☐ Iron Deposits (juitard (D3) graphic Relief (D4)		
Surface Soil Cr	. ,						✓ FAC-neutra			
Field Observation							▼ TAC-fleutia	ii Test (D3)		
Surface Water Pres		● No ○	Depth (inche	·s)· 6						
Water Table Prese		O No 💿		•		Wotlar	nd Hydrology Presen	t? Yes ● No ○		
	_		Depth (inche	es):		Wetiai	na nyarology Presen	ti res 🙂 No 🖰		
Saturation Present (includes capillary		○ No ●	Depth (inche	es):						
Describe Recorded I	Data (stream gauç	je, monitor w	rell, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Remarks:										
Shallow ponds rema	nining at surface, e	estimate of de	epth.							
-	- '									

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