WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 10-Jul-13			
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T132_07					
	gator(s): WAD, BAB	L	Landform (hillside, terrace, hummocks etc.): bank					
Local	relief (concave, convex, none): undulating		Slope: 1.7	% / 1.0) ° Elevation: 896			
	gion : Interior Alaska Mountains	Lat.: 6	 32.950104237	 7	Long.: -148.379664898 Datum: WGS84			
	ap Unit Name:	_	,		NWI classification: PEM1E			
	matic/hydrologic conditions on the site typical for this ti	ima of voor?	Yes	● No ○				
		significantly			Iormal Circumstances" present? Yes No No			
		naturally pro			eded, explain any answers in Remarks.)			
	• •	• •						
SUMI	MARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No			41	.I. I.A			
	Hydric Soil Present? Yes No C)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No C)	Wi	ithin a W	etland? Yes ● No ○			
Rem	parks: graminoid dominated riverbank.							
T CII	photo num 1273, 1274, photo time 1447.							
	<u> </u>							
VEGE	ETATION - Use scientific names of plants. L	ist all spe	cies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant			
2.		0			Species Across All Strata: 2 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>10</u> x 1 = <u>10</u>			
1.	Salix pulchra	5	✓	FACW	FACW Species <u>5</u> x 2 = <u>10</u>			
2.		0			FAC Species <u>45.1</u> x 3 = <u>135.3</u>			
3.					FACU Species <u>0.1</u> x 4 = <u>0.400</u>			
4.		0			UPL Species0 x 5 =0			
5.		0			Column Totals: <u>60.2</u> (A) <u>155.7</u> (B)			
6.					Prevalence Index = B/A = 2,586			
7.		0			Z.380			
8.					Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
10.					Prevalence Index is ≤3.0			
Her	Total Cover b Stratum 50% of Total Cover:		of Total Cover	: 1	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
	Calamagrostis canadensis	45	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Corey equatilie	10		OBL	Indicators of hydric soil and wetland hydrology must			
3.	Polomonium coutiflorum	0.1		FAC	be present, unless disturbed or problematic.			
-	Chamerion angustifolium	0.1		FACU				
					Plot size (radius, or length x width)			
5.					% Cover of Wetland Bryophytes			
5. 6.					(Where applicable)			
6.		0			(Where applicable) % Bare Ground			
6. 7.		0						
6. 7. 8.		0 0			% Bare Ground			
6. 7. 8. 9.		0 0			% Bare Ground Total Cover of Bryophytes Hydrophytic			
6. 7. 8. 9.		0 0 0 0 0 0			% Bare Ground Total Cover of Bryophytes			

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SOIL Sampling Point: SW13_T132_07

Profile Descript		epth needed to docum				ators)				
Depth (inches)	Mati			dox Featu		. 2	Texture	Remarks		
0-1	Color (moist)		Color (moist)	_%_	Type ¹	<u>Loc</u> ²	Fibric Organics	Remarks		
							Sapric Organics			
1-10							Sapric Organics			
				_						
				-						
¹Type: C=Cor	ncentration. D=Dep	eletion. RM=Reduce	d Matrix ² Location	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		Indicators for Pr	roblematio	Hydric So	oils: ³				
Histosol or	r Histel (A1)		Alaska Color C	aska Color Change (TA4) ⁴ 🔲 Alaska				ka Gleyed Without Hue 5Y or Redder		
✓ Histic Epip	pedon (A2)		Alaska Alpine s	swales (TA5	5)		Underlying Layer			
Hydrogen	Sulfide (A4)		Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remark	5)		
Thick Dark	k Surface (A12)		3.0	5 la d a la d	: 		: i- dik6kl d k-	advalant.		
Alaska Gle	eyed (A13)		and an appropria				nary indicator of wetland hy esent	drology,		
Alaska Red	dox (A14)				•	•				
Alaska Gle	eyed Pores (A15)		⁴ Give details of o	olor change	e in Kemark	S				
Restrictive Laye	er (if present):									
Type: seas	sonal frost						Hydric Soil Present?	Yes 💿 No 🔾		
Depth (inch	hes): 10									
Remarks:										
1										
HYDROLO	GY									
	rology Indicators	:					Secondary Indic	ators (two or more are required)		
_	ators (any one is su							ned Leaves (B9)		
Surface W	Vater (A1)		☐ Inundation V	/isible on A	erial Imager	y (B7)	☐ Drainage Pa	atterns (B10)		
✓ High Wate	er Table (A2)		Sparsely Veg	jetated Con	cave Surfac	e (B8)	Oxidized Rh	nizospheres along Living Roots (C3)		
✓ Saturation	n (A3)		Marl Deposit			-	Presence of	Reduced Iron (C4)		
Water Ma	arks (B1)		Hydrogen Su	ılfide Odor	(C1)		Salt Deposi	ts (C5)		
Sediment	Deposits (B2)		Dry-Season \	Water Table	e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)		Other (Expla	in in Rema	rks)		✓ Geomorphi	Position (D2)		
Algal Mat	or Crust (B4)						Shallow Aq	uitard (D3)		
Iron Depo	osits (B5)							raphic Relief (D4)		
	oil Cracks (B6)					П	✓ FAC-neutra	Test (D5)		
Field Observa		O O								
Surface Water		es O No 💿	Depth (inche	es):						
Water Table F	Present? Y	es No	Depth (inche	es): 4		Wetlar	nd Hydrology Present	t? Yes • No O		
Saturation Pre (includes capi		es No	Depth (inche	es): 0						
Describe Recor	rded Data (stream g	gauge, monitor well,	, aerial photos, pre	vious inspe	ction) if ava	ilable:				
					-					
Remarks:										
banks next to r	r3ubh									

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