WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City	Matanusk	ka-Susitna Borough Sampling Date: 01-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_04			
	gator(s): WAD, RWM	Landform (h	illside, terrace, hummocks etc.): creek bank					
	relief (concave, convex, none): hummocky		1 ° Elevation: 109					
	gion : Interior Alaska Mountains	l at ·	 63.2197526					
		Lat	03.2197320					
	ap Unit Name:		o V-	- (A) N- (NWI classification: PEM1E			
	matic/hydrologic conditions on the site typical for this ti /egetation \square , Soil \square , or Hydrology \square :							
			tly disturbed? problematic?		formal offormations present:			
Are v	/egetation ☐ , Soil ☐ , or Hydrology ☐	naturany p	problematic?	(if nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing sa	mpling poi	nt locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No)		. 41 0	unla di Anna			
	Hydric Soil Present? Yes No C)	Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No C)	\	within a Wetland? Yes ● No ○				
Rem	arks: bluejoint meadow at edge of small creek.							
VEGI	ETATION -Use scientific names of plants. Li	st all sp	ecies in th	e plot.				
		Absolute		Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cove			Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:3(A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.		_			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	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cov	er: <u>0</u>	OBL Species 31 x 1 = 31			
1	Salix pulchra	5	✓	FACW	FACW Species 5 x 2 = 10			
2.	•				FAC Species 63 x 3 = 189			
3.		_	_		FACU Species 0 x 4 = 0			
4.		•			UPL Species0 x 5 =0			
5.					Column Totals: <u>99</u> (A) <u>230</u> (B)			
6.								
7.		^			Prevalence Index = B/A = 2.323			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
	Total Cover				☐ Morphological Adaptations ¹ (Provide supporting data in			
Hei	Stratum 50% of Total Cover:	2.5 20			Remarks or on a separate sheet)			
1.	Calamagrostis canadensis			FAC	Problematic Hydrophytic Vegetation (Explain)			
2.	Comarum palustre			OBL	Indicators of hydric soil and wetland hydrology must he present unless dicturbed or problematic.			
3.	Equisetum arvense		-	FAC	be present, unless disturbed or problematic.			
4.	Carex aquatilis	2	-	OBL	Plot size (radius, or length x width)			
5.	Rumex arcticus Polomonium acutiflorum		-	FAC FAC	% Cover of Wetland Bryophytes			
6.	Polemonium acutiflorum Enilobium paluetre		-	OBL	(Where applicable)			
_	Epilobium palustre		- 📙	— ODL	% Bare Ground			
7.			_		Total Cover of Bryophytes			
8.								
8. 9.		0	- 📙					
8. 9.		0			Hydrophytic Vegetation			
8. 9.	Total Cover	0 0 94		er: 18.8	Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T143_04

	on: (Describe to the depth needed to doo Matrix				onfirm the ab		cators)				
Depth (inches)	Color (mois		% (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
(COIOI (IIIOI	SL)	70	LOIDI (IIIDISE)		Туре	LUC	- CARGO C			
			— —					-	-		
-							-	-			
			— —					-			
			— —								
¹Type: C=Cor	ncentration. D=	Depletion. F		I Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:		J	Indicators for Pr		4	oils:				
Histosol or	r Histel (A1)		L	Alaska Color Cl	hange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	pedon (A2)		L	Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		L	☐ Alaska Redox With 2.5Y Hue							
Thick Dark	k Surface (A12)			2.5	51 L L						
Alaska Gle	eyed (A13)			One indicator of and an appropriat				nary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)						•	CSCIIC			
	eyed Pores (A15)		4 Give details of co	olor change	e in Remari	ks				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
ı											
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)		
✓ Surface W	Vater (A1)	☐ Inundation V	/isible on A	verial Image	ery (B7)	✓ Drainage F	Patterns (B10)				
✓ High Wate	er Table (A2)		☐ Sparsely Veg	jetated Cor	ncave Surfa	ice (B8)		hizospheres along Living Roots (C3)			
✓ Saturation	✓ Saturation (A3)				ts (B15)				of Reduced Iron (C4)		
Water Ma	Water Marks (B1) Hydrogen Sulfide Odor (C1)							Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dry-Season \	Water Tabl	ie (C2)			Stressed Plants (D1)		
Drift Depo	osits (B3)			Other (Explain	in in Rema	ırks)			ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)		
Iron Depo	osits (B5)							_	graphic Relief (D4)		
Surface Se	ioil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes 💿	No \bigcirc	Depth (inche	es): 2						
Water Table P	resent?	Yes 💿	No \bigcirc	Depth (inche	es): 0		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre		Yes	$_{No}\bigcirc$	Depth (inche	•						
		m gauge, n	nonitor well,	aerial photos, pre	vious inspe	ection) if av	vailable:				
Daniel Mark											
Remarks:	y a					7 · · · · · · · · · · ·					
site adjacent to	small flowing s	tream. suri	ace water 110	owing through area	a at time o	f sampling.	•				

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