WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date:07-Aug-13			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T196_05			
nvestigator(s): SLI, EAC		Landform (hillside, terrace, hummocks etc.): Pothole					
Local relief (concave, convex, none): concave		Slope: % / 5.8 ° Elevation: 863					
Subregion : Interior Alaska Mountains	l at ·	63.304160833		Long.: -148.21247375 Datum: NAD83			
Soil Map Unit Name:		00.00+100000	<u> </u>	NWI classification: PUSC			
Are climatic/hydrologic conditions on the site typical for this	time of voc	o Voc	● No ○				
Are Vegetation , Soil , or Hydrology	significantl	y disturbed? roblematic?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes No	\supset						
Hydric Soil Present? Yes No	\supset	Is the Sampled Area					
Wetland Hydrology Present? Yes No	\supset	within a Wetland? Yes ● No ○					
Remarks: Seasonnally flooded, unvegetated depression							
/EGETATION -Use scientific names of plants. I	ist all spe	cies in the	plot.				
230 Co.c. Marries of plants.	Absolute			Dominance Test worksheet:			
Tree Stratum	% Cover		Status	Number of Dominant Species			
1.	0			That are OBL, FACW, or FAC: 0 (A)			
2	0			Total Number of Dominant Species Across All Strata: 0 (B)			
3.	0			Percent of dominant Species			
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)			
5	0			Prevalence Index worksheet:			
Total Cove				Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species			
1	0			FACW Species 0 x 2 = 0			
2.				FAC Species			
3.	•			FACU Species <u>0</u> x 4 = <u>0</u>			
4				UPL Species0 x 5 =0			
5	0_			Column Totals: 0 (A) 0 (B)			
6				Prevalence Index = B/A = 0,000			
7	0						
8				Hydrophytic Vegetation Indicators:			
9.				☐ Dominance Test is > 50%			
10.				☐ Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cover:	0 20%	6 of Total Cove	r: <u>0</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.				✓ Problematic Hydrophytic Vegetation ¹ (Explain)			
2.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3							
4. 5.				Plot size (radius, or length x width)			
6				% Cover of Wetland Bryophytes (Where applicable)			
7.	•			% Bare Ground			
8.				Total Cover of Bryophytes			
9.	0			Hydrophytic			
9							
			: 0	Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T196_05

Profile Description	file Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)		
(inches)	Color (mois	t)	 %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	00.01 (,		Color (moloc)		.,,,,			
								-	
									-
-					-				
¹Type: C=Con	centration. D=[Depletion. I	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix	
Hydric Soil Ir	dicators:			Indicators for Pro	oblemati	Hydric So	oils: ³		
Histosol or	Histel (A1)			Alaska Color Ch	ange (TA	1)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen :	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	✓	Other (Explain in Remark	rs)
☐ Thick Dark	Surface (A12)			2					
Alaska Gley	/ed (A13)			One indicator of and an appropriat				nary indicator of wetland h	ydrology,
Alaska Red	ox (A14)					•			
Alaska Gle	ed Pores (A15)	l		⁴ Give details of co	olor chang	e in Remarks	S		
Restrictive Laye	r (if present):								
Type:								Hydric Soil Present	? Yes 💿 No 🔾
Depth (inch	es):								
l									
HYDROLO	GY								
Wetland Hydr	ology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indicat	ors (any one is	sufficient)						Water Stai	ned Leaves (B9)
✓ Surface W	ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	Drainage F	atterns (B10)
High Wate	r Table (A2)			✓ Sparsely Vege	etated Cor	cave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	(A3)			☐ Marl Deposits	(B15)			Presence o	f Reduced Iron (C4)
✓ Water Mar	ks (B1)			Hydrogen Sul	fide Odor	(C1)		Salt Depos	its (C5)
Sediment	Deposits (B2)			☐ Dry-Season V	Vater Tabl	e (C2)		Stunted or	Stressed Plants (D1)
Drift Depo	sits (B3)			Other (Explai	n in Rema	rks)		Geomorph	ic Position (D2)
✓ Algal Mat	or Crust (B4)							Shallow Ac	uitard (D3)
☐ Iron Depo	sits (B5)							☐ Microtopog	raphic Relief (D4)
☐ Surface So	il Cracks (B6)							☐ FAC-neutra	l Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes		Depth (inche	s): 6				
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pre (includes capil		$_{Yes} \bigcirc$	No •	Depth (inche	s):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
	rocks indicate	water 2 5ft	helow may	κ. depression fringes	w scatter	ad careav d	ried algae		
water marks on	rocks mulcate	vvater Z.JIL	. DEIOW IIId)	depression miliges	vv scatter	Lu Carsax, U	ricu aiyae.		

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