WETLAND DETERMINATION DATA FORM - Alaska Region

	: Susitna-Watana Hydroelectric Project	xt	Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12			
Applicant/O	wner: Alaska Energy Authority					Sampling Point: SW12_T52_01			
 Investigator			L	andform (hills	side, terrac	e, hummocks etc.): Flat			
•	(concave, convex, none): flat			Slope: 0.0					
	Interior Alaska Mountains			2.795969908		Long.: -148.53936997 Datum: WGS84			
_		— '	.ai <u>0</u>	2.795969906					
Soil Map Un	-				No ○	NWI classification: PEM1H			
Are Vegeta Are Vegeta	ation , Soil , or Hydrology RY OF FINDINGS - Attach site ma	signif natur ap showing	icantly ally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.) s, transects, important features, etc.			
Hydr	rophytic Vegetation Present? Yes	No O		Is	the Sam	pled Area			
Hydr	ric Soil Present? Yes	No O	Is the Sampled Area within a Wetland? Yes ● No ○						
Wet	land Hydrology Present? Yes •	No 🔾		441	uiiii a vv	etiana:			
Remarks:	: TION -Use scientific names of pla	ants. List a	ll spec	cies in the	plot.	Dawinasa Tashusukahash			
	_		olute	Dominant		Dominance Test worksheet: Number of Dominant Species			
Tree Stra	atum	_% (Over 0	Species?	Status	That are OBL, FACW, or FAC:4 (A)			
-						Total Number of Dominant			
2. 3.						Species Across All Strata: 4 (B)			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.									
J	Tot	al Cover:	0			Prevalence Index worksheet:			
Sanling /	Shrub Stratum 50% of Total Co			of Total Cover:	0	Total % Cover of: Multiply by:			
			-			OBL Species :####; x1 = 53.7 FACW Species 0.1 x2 = 0.200			
-	Iromeda polifolia		0.1		FACW				
	cinium oxycoccos		0.1		OBL				
	ula nana			✓	FAC	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0			
4. <u>Myr</u> 5.	ica gale		$\frac{1}{0}$		OBL				
-						Column Totals: <u>54.8</u> (A) <u>56.9</u> (B)			
6. — 7.						Prevalence Index = B/A =1.038_			
						Hydronbytic Vocatation Tudicators			
8 9.						Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.						✓ Prevalence Index is ≤ 3.0			
Herb Str	=00/ C= . LO		2.2	of Total Cover	0.44	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
-	nyanthes trifoliata		_ 15	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
	chophorum caespitosum		2		OBL	¹ Indicators of hydric soil and wetland hydrology must			
	rex livida		 25	<u></u>	OBL	be present, unless disturbed or problematic.			
J	rex aquatilis		0.1		OBL				
	ex magellanica		10		OBL	Plot size (radius, or length x width) <u>10m</u>			
	ex rotundata		0.1		OBL	% Cover of Wetland Bryophytes			
7. Car	ex chordorrhiza		0.1		OBL	% Bare Ground50			
8. Car	rex limosa		0.1		OBL	Total Cover of Bryophytes 20			
9. Spir	ranthes romanzoffiana		0.1		OBL				
	ex tenuiflora		0.1		OBL	Hydrophytic			
10. <u>Car</u>									
10. <u>Car</u>	Tot 50% of Total Co	_	52.6	(10.52	Vegetation Present? Yes ● No ○			

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Redox Features

Matrix

Redox Features

Profile Descripti Depth	•	ne depth nee l atrix	eded to docum	o document the indicator or confirm the absence of indicators) Redox Features						
(inches)	Color (mois	st)	%	Color (moist)		%	Type ¹	Loc 2	Texture	Remarks
									-	
¹Type: C=Cor	ncentration. D=I	Depletion.	RM=Reduce	ed Matrix ² Lo	cation: PL	.=Pore	Lining. RC	=Root Char	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators f	or Proble	matic	Hydric So	oils: ³		
	Histel (A1)				lor Change		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	. ,				oine swales				Underlying Layer	
✓ Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue								Other (Explain in Remark	s)	
Thick Dark	Surface (A12)			20						
Alaska Gle				and an appro					lary indicator of wetland h sent	ydrology,
Alaska Red	` ,			4 Give details	s of color c	hange	in Remark	· ·c		
	yed Pores (A15))		Oive details	or color c	nunge	III Remark			
Restrictive Laye	er (if present):									
Type:									Hydric Soil Present	? Yes • No O
Depth (inch	ies):									
Remarks:										
Standing water	permanent, ass	sume msuc	ерірецоп							
LIVERGLO	01/									
HYDROLO Wetland Hyd	GY rology Indicat	ors:							Secondary India	cators (two or more are required)
-	tors (any one is									ned Leaves (B9)
✓ Surface W	/ater (A1)			Inundat	tion Visible	on Ae	rial Image	rv (B7)		atterns (B10)
✓ High Wate	. ,				y Vegetate					hizospheres along Living Roots (C3)
✓ Saturation	n (A3)				posits (B1			` ,	Presence o	f Reduced Iron (C4)
☐ Water Ma	rks (B1)			✓ Hydroge	en Sulfide	Odor (C1)		Salt Depos	its (C5)
Sediment	Deposits (B2)			Dry-Sea	son Water	Table	(C2)		Stunted or	Stressed Plants (D1)
Drift Depo	osits (B3)			Other (I	Explain in I	Remarl	cs)			c Position (D2)
_	or Crust (B4)								Shallow Aq	` '
☐ Iron Depo	. ,									raphic Relief (D4)
	oil Cracks (B6)								✓ FAC-neutra	l Test (D5)
Field Observa		Yes •	No O	Danth ((:l). :					
Surface Water		Yes •			(inches):	ı		\\\ - +1	. d. 11 d 1	
Water Table P				Depth ((inches):			wetian	nd Hydrology Presen	t? Yes ● No O
Saturation Pre (includes capi		Yes	No O	Depth ((inches):					
Describe Recor	ded Data (strea	m gauge, ı	monitor well	l, aerial photos	s, previous	inspec	tion) if ava	ailable:		
Remarks:	normana									
Standing water	permanent									

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