WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	ct	Во	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 09-Jul-13		
Applicant/Owner: Alaska Energy Authority					Sampling Point: SW13_T120_01		
Investigator(s): JGK		L	_andform (hill	side, terrac	ce, hummocks etc.): depression		
Local relief (concave, convex, none): concave			Slope:		3 ° Elevation: 981		
Subregion : Southcentral Alaska		lat e	62.701717019		Long.: -149.714099289 Datum: NAD83		
Soil Map Unit Name:			22.701717010	/ 1	NWI classification: PUBH		
Are climatic/hydrologic conditions on the site typical	for this time	of woor?) Voc	● No ○			
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology	√ □ sigr √ □ nat	nificantly urally pro	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes	No 🔾		la.	tha Cam	unland Ausa		
Hydric Soil Present? Yes ●	No \bigcirc		he Sampled Area nin a Wetland? Yes ◉ No ◯				
Wetland Hydrology Present? Yes ●	No O		WI	tnin a w	retiand? res © NO ©		
VEGETATION -Use scientific names of pl	ants. List	all spec	cies in the	plot.			
		solute	Dominant		Dominance Test worksheet:		
Tree Stratum	_%	Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)		
1.					Total Number of Dominant		
2.					Species Across All Strata: 2 (B)		
3. 4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
Tot	al Cover:	0			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Co	ver: 0	20% (of Total Cover:	0	OBL Species 10 x 1 = 10		
1		0			FACW Species 5 x 2 = 10		
2.		0			FAC Species0 x 3 =0		
3.		•			FACU Species0 x 4 =0		
4.		0			UPL Species0 x 5 =0		
5.		0			Column Totals: <u>15</u> (A) <u>20</u> (B)		
6		0					
7		0			Prevalence Index = B/A = 1.333		
8		0			Hydrophytic Vegetation Indicators:		
9		0			Dominance Test is > 50%		
10		0			✓ Prevalence Index is ≤3.0		
Total Co	tal Cover:	0 20%	of Total Cover	:0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
Equisetum fluviatile		10	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
Carex spectabilis		5	~	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3		0			be present, unless disturbed or problematic.		
4					Plot size (radius, or length x width) 10m		
5		0			% Cover of Wetland Bryophytes		
6					(Where applicable)		
7.					% Bare Ground		
8.					Total Cover of Bryophytes		
9							
10.	al Cover:	15			Hydrophytic Vegetation		
Total					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)

Matrix

Redox Features

Depth		he depth need latrix	ded to docume	cument the indicator or confirm the absence of indicators) Redox Features					
	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
								-	
								-	
									-
									-
¹Type: C=Co	ncentration. D=	Depletion. F	RM=Reduce	d Matrix ² Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pro	oblematio	Hydric So	oils:		
Histosol o	r Histel (A1)			Alaska Color Ch	ange (TA	ł) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	pedon (A2)			Alaska Alpine sv	wales (TA	5)		Underlying Layer	
	Sulfide (A4)			Alaska Redox W	/ith 2.5Y F	lue	✓	Other (Explain in Remarl	(S)
	k Surface (A12)								
	eyed (A13)			One indicator of and an appropriate				nary indicator of wetland h	nydrology,
Alaska Re				ани ан арргорнай	e iaiiuscap	e position i	nust be pre	SEIIL	
Alaska Gle	eyed Pores (A15)		4 Give details of co	lor change	e in Remark	S		
Restrictive Lay	er (if present):								
Type:								Hydric Soil Present	? Yes • No O
Depth (incl	hes):								
HYDROLO	GY								
-	rology Indicat								cators (two or more are required)
	ators (any one is	sufficient)							ned Leaves (B9)
✓ Surface V	. ,			Inundation Vi		-			Patterns (B10)
	er Table (A2)			Sparsely Vege		cave Surfac	ce (B8)		hizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposits	. ,				of Reduced Iron (C4)
☐ Water Ma				Hydrogen Sul		` '		☐ Salt Depos	` '
	Deposits (B2)			☐ Dry-Season W					Stressed Plants (D1)
☐ Drift Dep	osits (B3) or Crust (B4)			Uther (Explain	ın Rema	rks)		✓ Geomorph ✓ Shallow Ad	ic Position (D2)
☐ Iron Depo									graphic Relief (D4)
	Soil Cracks (B6)							✓ FAC-neutra	
Field Observa	. ,							▼ FAC-fleutio	in rest (D3)
Surface Wate		Yes	No O	Depth (inches	z)·				
Water Table F		Yes O					Wotlar	nd Hydrology Presen	it? Yes • No O
Saturation Pro				Depth (inches	5):		Wetiai	id riyurology Presen	it: les 🔾 NO 🔾
(includes capi		Yes O	No 🖭	Depth (inches	s):				
Describe Recor	rded Data (strea	ım gauge, n	nonitor well,	aerial photos, prev	ious inspe	ction) if ava	ailable:		
Remarks:									
pond.									
ponu.									

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