WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T150_05			
	gator(s): SLI, EAC		Landform (hillside, terrace, hummocks etc.): Kettle					
Local i	relief (concave, convex, none): concave		Slope: % / 2.2 ° Elevation: 767					
	gion : Interior Alaska Mountains	lat: (63.3293942214 Long.: -148.285742163 Datum: NAD83					
		Lat(
	p Unit Name:			○ N- ○	NWI classification: PEM1E			
Are \		significantly	disturbed? oblematic?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ dedd, 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 C)						
	Hydric Soil Present? Yes No C)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No C)	within a Wetland? Yes ● No ○					
Rema	arks: small hgwsl, not visible in rapideye satellite imag	ery.						
	ETATION - Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species			
<u>Tre</u> 1.	e Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:1 (A)			
					Total Number of Dominant			
2. 3.					Species Across All Strata:1 (B)			
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			That Ale OBE, I AOW, OF I AC			
J.	Total Cover				Prevalence Index worksheet:			
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover	. 0	Total % Cover of: Multiply by:			
Jap					OBL Species 85 x 1 = 85			
1.					FAC Species 0.1 x 2 = 0.200			
2.					FAC Species 0 x 3 = 0 FACU Species 0 x 4 = 0			
3.								
4.								
5.					Column Totals: <u>85.1</u> (A) <u>85.20</u> (B)			
6. 7.		0			Prevalence Index = B/A = 1.001			
0					Undershit Vocatation Indicators			
9.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
					✓ Prevalence Index is ≤3.0			
	Total Cover b Stratum 50% of Total Cover:		of Total Cove	.: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
-	Carey equatilia		✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
	0			OBL	Indicators of hydric soil and wetland hydrology must			
3.	Galium trifidum	0.1		FACW	be present, unless disturbed or problematic.			
_	Eriophorum angustifolium	10		OBL				
					Plot size (radius, or length x width) 10m			
		^			% Cover of Wetland Bryophytes (Where applicable)			
					% Bare Ground30			
					Total Cover of Bryophytes			
9.		0			Hydrophytic			
					Vegetation			
	Total Cover 50% of Total Cover: 4		CT		Present? Yes No			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T150_05

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

		ne depth nee	ded to docum	ent the indicator or cor	nfirm the ab		ators)			
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
				,		-77-				
								-		
¹Type: C=Co	ncentration. D=I	Depletion. F	RM=Reduce	ed Matrix ² Location	: PL=Por	e Lining. RC	=Root Char	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric So	oils: ³			
Histosol or Histel (A1)				Alaska Color Ch	nange (TA	4 1)		Alaska Gleyed Without Hue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer		
✓ Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remarks)		
Thick Darl	Surface (A12)			30						
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland h esent	ydrology,	
Alaska Re	dox (A14)					·	•			
☐ Alaska Gle	eyed Pores (A15))		⁴ Give details of co	olor change	e in Kemark	s			
Restrictive Laye										
	ve layer (frozen))						Hydric Soil Present	? Yes 💿 No 🔾	
Depth (incl	nes): 17									
h2s when walk	ing through wet	land. probii	ng indicates	s depth of frozen soi	ls.					
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
Surface Water (A1)				Inundation V	isible on A	erial Imager	ry (B7)		atterns (B10)	
High Water Table (A2)				Sparsely Vege	etated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)	
☐ Water Marks (B1)				✓ Hydrogen Sul				Salt Depos		
Sediment Deposits (B2)				☐ Dry-Season V		` '			Stressed Plants (D1)	
	Drift Deposits (B3) Other (Explain in Rem								ic Position (D2)	
	☐ Algal Mat or Crust (B4) ☑ Iron Deposits (B5)							✓ Shallow Ac		
	oil Cracks (B6)							✓ FAC-neutra	raphic Relief (D4)	
Field Observa	,							▼ TAC-fleutia	ir rest (D3)	
Surface Wate		Yes	No O	Depth (inche	s)· 2					
Water Table F		Yes O			•		Wotlan	nd Hydrology Presen	t? Yes • No O	
Saturation Pro				Depth (inche	s):		Wetlai	ia riyarology Fresch	ti les 🔾 NO 🔾	
(includes capi		Yes O	No 💿	Depth (inche	s):					
Describe Recor	ded Data (strea	m gauge, n	nonitor well	, aerial photos, prev	vious inspe	ection) if ava	ilable:			
Remarks:										
	slightly above si	urface. iror	n floc and h	iogenic sheen. h2s c	odor when	walking thr	ouah comm	nunity, ph 6,58, ec 110		
water table at/slightly above surface. iron floc and biogenic sheen. h2s odor when walking through community. ph 6.58, ec 110										

U.S. Army Corps of Engineers Alaska Version 2.0