WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Ma	atanuska-Susitna Borough	Sampling Date: 06-	Jul-13		
Applicant/Owner: Alaska Energy Authority		Samplin	g Point: SW13_T	115_05		
Investigator(s): JGK	Landform (hillside	e, terrace, hummocks etc.):	Lowland			
Local relief (concave, convex, none): flat	Slope: 0.0 %	/ 0.0 ° Elevation: 941				
Subregion : Interior Alaska Mountains Lat.:	63.014778256	Long.: -148.3062374	159 Datum:	WGS84		
Soil Map Unit Name:		NWI classif	ication: PEM1F			
	ar? Yes () tly disturbed? problematic?	No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answe	present? Yes 🔍 N	lo ()		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: DUNN SITE 1436				

VEGETATION - Use scientific names of plants. List all species in the plot.

			Abc	olute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum			over	Species?	Status	Number of Dominant Species		
1.				0			That are OBL, FACW, or FAC:	(A)	
2.	-			0			Total Number of Dominant	(D)	
3.				0			Species Across All Strata: 2	(B)	
3. 4.							Percent of dominant Species That Are OBL, FACW, or FAC: 100.0%	(A/B)	
4. 5.				0				(A/B)	
э.				0			Prevalence Index worksheet:		
		Total Cover	_	0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species40 x 1 =40		
1				0			FACW Species 0 x 2 = 0		
2.				0			FAC Species 0 x 3 = 0		
3.				0			FACU Species 0 x 4 = 0		
4.				0			UPL Species $0 \times 5 = 0$		
ч. 5.				0					
				0			Column Totals: <u>40</u> (A) <u>40</u>	(B)	
							Prevalence Index = B/A = 1.000		
				0					
				0			Hydrophytic Vegetation Indicators:		
				0			Dominance Test is > 50%		
10.				0			✓ Prevalence Index is ≤3.0		
		Total Cover		0			Morphological Adaptations ¹ (Provide supporting d	ata in	
Her	b Stratum	50% of Total Cover:	0	20%		0	Remarks or on a separate sheet)		
1.	Carex aquatilis			25	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Eriophorum angustifolium			15	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.				0			be present, unless disturbed or problematic.		
	-			0			Plot size (radius, or length x width) 10m		
				0					
				0			% Cover of Wetland Bryophytes (Where applicable)	_	
				0			% Bare Ground		
				0			Total Cover of Bryophytes		
				0				_	
				0					
10.		Total Cover	•	40			Hydrophytic Vegetation		
					of Total Cover:	8	Present? Yes No		
			-0			<u>~</u>	1		
Rem	arks:								

SOIL

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Redox Features								
Depth (inches)			<u> </u>				. 2	Texture	Remarks
(incres)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
	<u> </u>								
¹ Type: C=Cor	ncentration. D=I	Depletion. F	RM=Reduc	ed Matrix ² Location	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr		4	oils: ³	_	
Histosol or	r Histel (A1)			Alaska Color Cl	hange (TA4	ł) [*]] Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	wales (TAS	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			🗌 Alaska Redox V	Nith 2.5Y F	lue	\checkmark	Other (Explain in Remark	s)
Thick Dark	surface (A12)								
🗌 Alaska Gle	eyed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,
🗌 Alaska Red	dox (A14)				te ianuscar		nust be pre		
🗌 Alaska Gle	yed Pores (A15))		⁴ Give details of c	olor change	e in Remark	S		
Restrictive Laye	or (if precent):								
Type:	er (ir present).							Undrie Ceil Drocont	? Yes 🖲 No 🔿
Depth (inch								Hydric Soil Present	r fes \odot no \bigcirc
Deput (inci	ies).								
Remarks:									
assume hydric	soil due to hydr	ophytic veg	etation an	d standing water					
HYDROLO	GY								
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)
-	tors (any one is								ned Leaves (B9)
Surface W				Inundation V	isible on A	arial Imager	w (B7)	_	atterns (B10)
	er Table (A2)			Sparsely Veg		-			hizospheres along Living Roots (C3)
Saturation				Marl Deposit			.e (bb)		f Reduced Iron (C4)
Water Ma	. ,			Hydrogen Su	. ,	(C1)		Salt Depos	
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)
	,			Other (Explai		. ,		_	ic Position (D2)
	or Crust (B4)					KS)			uitard (D3)
	. ,							_	raphic Relief (D4)
·	oil Cracks (B6)							FAC-neutra	
	. ,							I FAC-neutra	i Test (D3)
Field Observa		Yes 🖲		Danth (in sha	а). Г				
Surface Water		-	-	Depth (inche	es): 5				\sim
Water Table P	Present?	Yes \bigcirc	No 🔍	Depth (inche	es):		Wetlaı	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pre (includes capi		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	es):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:		daan 199	7 0						
Patches of oper EC 90	n water 4 - 6 in	aeep. pH	1.3						
20 90									