WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date:	04-Jul-13			
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point: S	W13_T122_05			
Investigator(s): SLI, SCB	Landform (hills	ide, terrace, hummocks etc.):	Terrace				
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation: 734	1				
Subregion : Interior Alaska Mountains Lat.:	62.855303645	Long.: -148.476524	183 C	Datum: WGS84			
Soil Map Unit Name:		NWI class	ification: PUSC				
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transects, impor	tant features,	etc.			

Wetland Hydrology Present? Yes No O Within a Wetland?		No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No
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Remarks: white crowned sparrow. Appears to be a seasonally flooded pond. Water levels high (fully submerged grasses/sedges). Sparse graminoid veg between submerged cobbles-boulders w/in unconsolidated matrix. Suspect water level drops throughout season and then this is sparsely venetated

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)		
1		0					
2		0			Total Number of Dominant Species Across All Strata: 1 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:	0			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of To	tal Cover:	0 20%	of Total Cover:	0	OBL Species $0.1 \times 1 = 0.1$		
1		0			FACW Species $1 \times 2 = 2$		
2.					FAC Species 0.1 x 3 = 0.300		
3.		0			FACU Species $0 \times 4 = 0$		
4.		0			UPL Species $0 \times 5 = 0$		
5.		0			Column Totals: 1.2 (A) 2.400 (B)		
6.		•					
7.					Prevalence Index = B/A = 2.000		
8.					Hydrophytic Vegetation Indicators:		
9.					✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is \leq 3.0		
	Total Cover:	0			Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of To	otal Cover:	0 20%	of Total Cover:	0	Remarks or on a separate sheet)		
1. Carex stylosa		1	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Comarum palustre				OBL	¹ Indicators of hydric soil and wetland hydrology must		
3. Carex podocarpa		0.1		FAC	be present, unless disturbed or problematic.		
4		•			Plot size (radius, or length x width) 10m		
5					Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6		-			(Where applicable)		
7		0			% Bare Ground		
8					Total Cover of Bryophytes		
9							
10		0			Hydrophytic		
	Total Cover:	1.2			Vegetation		
50% of To	tal Cover:(0.6 20%	of Total Cover:	0.24	Present? Yes No		
Remarks: 1% submerged grass, referenced	l as puccinellia	in tablet.	collected, may	not be ab	le to identify.		

		e depth nee atrix	ded to docun	nent the indicator or co	nfirm the ab dox Featu		cators)		
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
		-,				.,,,,			
	·								
								-	
¹ Type: C=Con	centration. D=[Depletion. F	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³		
Histosol or				Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	. ,			Alaska Alpine s		-		Underlying Layer	
Hydrogen S				Alaska Redox \	-	-	\checkmark	Other (Explain in Remarl	(S)
	Surface (A12)								
Alaska Gley	. ,							nary indicator of wetland h	nydrology,
Alaska Red				and an appropriat	te landscap	be position	must be pre	esent	
	ved Pores (A15)			⁴ Give details of c	olor chang	e in Remarl	ks		
Restrictive Laye	r (ir present):								? Yes 🖲 No 🔾
Type: Depth (inch								Hydric Soil Present	$r res \odot no \bigcirc$
	25).								
Remarks:									
Assume hydric s	oil due to hydro	ophytic veg	etation and	l standing water					
HYDROLO	γ								
Wetland Hydr	_	ors:						Secondary Indi	cators (two or more are required)
Primary Indicat									ned Leaves (B9)
Surface W				Inundation V	isihle on A	erial Image	erv (B7)	_	Patterns (B10)
	r Table (A2)			Sparsely Veg		5	, , ,		hizospheres along Living Roots (C3)
Saturation				Marl Deposit					of Reduced Iron (C4)
🗌 Water Mar	ks (B1)			Hydrogen Su	• •	(C1)		Salt Depos	sits (C5)
	Deposits (B2)			Dry-Season					Stressed Plants (D1)
Drift Depo				Other (Expla		. ,		Geomorph	ic Position (D2)
	or Crust (B4)			_ 、		,		Shallow Ac	quitard (D3)
Iron Depos	sits (B5)							Microtopog	graphic Relief (D4)
Surface So	il Cracks (B6)							✓ FAC-neutra	al Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes 🖲	No 🔿	Depth (inche	es): 12				
Water Table Pi	resent?	Yes \bigcirc	No 🖲	Depth (inche	<i>ic)</i> .		Wetlar	nd Hydrology Presen	it? Yes 🖲 No 🔾
Saturation Pres					,			,	
(includes capill		Yes \bigcirc	No 🛡	Depth (inche	es):				
Describe Record	led Data (strea	n gauge, n	nonitor wel	l, aerial photos, pre	vious inspe	ection) if av	ailable:		
	-			•					
Remarks:									
appears to be a	seasonally floo	ded pond.							