WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Jul-13								
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T122_05								
Investigator(s): SLI, SCB	side, terrac	e, hummocks etc.): Terrace										
Local relief (concave, convex, none): flat		Slope:	%/ 3.5	e Elevation: 732								
Subregion : Interior Alaska Mountains	Lat.:	62.855303644										
Soil Map Unit Name:	NWI classification: PUSC											
Are climatic/hydrologic conditions on the site typical for this tir	ne of ver	ar? Yes	• No ()	(If no, explain in Remarks.)								
		tly disturbed?		ormal Circumstances" present? Yes No								
Are Vegetation \Box , Soil \checkmark , or Hydrology \Box naturally problematic? (If needed, explain any answers in Remarks.)												
SUMMARY OF FINDINGS - Attach site map show												
	•		locations									
		ls	the Sam	pled Area								
			thin a W	-								
Wetland Hydrology Present? Yes No Within a Wetland ? No 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												
vegetated.												
	-+ -11		-1-4									
VEGETATION - Use scientific names of plants. Lis	st all sp	ecles in the j	<u>101.</u>	Dominance Test worksheet:								
Tree Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species								
1	0		<u> </u>	That are OBL, FACW, or FAC: (A)								
2.	0			Total Number of Dominant Species Across All Strata: 0 (B)								
3.	0											
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)								
5.	0			Prevalence Index worksheet:								
Total Cover:	0	_		Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species $0.1 \times 1 = 0.1$								
1.	0			FACW Species $1 \times 2 = 2$								
1		- □		FAC Species 0.1 x 3 = 0.300								
3.				FACU Species 0 x 4 = 0								
4.	0			UPL Species 0 x 5 = 0								
5.				Column Totals: <u>1.2</u> (A) <u>2.400</u> (B)								
6.	0											
7.	0			Prevalence Index = B/A = <u>2.000</u>								
8	0	_		Hydrophytic Vegetation Indicators:								
9	0			Dominance Test is > 50%								
10	0			✓ Prevalence Index is ≤3.0								
Total Cover: Herb Stratum50% of Total Cover:		_ % of Total Cover:	0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1. Carex stylosa	1		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)								
2. Comarum palustre	0.1		OBL	¹ Indicators of hydric soil and wetland hydrology must								
3. Carex podocarpa	0.1		FAC	be present, unless disturbed or problematic.								
4.	0											
5.				Plot size (radius, or length x width) <u>10m</u>								
6.				% Cover of Wetland Bryophytes (Where applicable)								
7	-	_		% Bare Ground								
8	0			Total Cover of Bryophytes								
9												
10	0	-		Hydrophytic								
Total Cover:		-	.	Vegetation Present? Yes No								
50% of Total Cover:	<u>0.6</u> 209	% of Total Cover:	0.24									
Remarks: 1% submerged grass, referenced as puccinellia	in tablet	. collected, may	not be ab	le to identify. no dominant herbs as total herb cover <5%.								

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		e depth need	ded to docum	ent the indicator or co	nfirm the ab		cators)		
Depth (inches)	Color (moist	1	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
			-70		-70	Туре	LUC		
								P	
				,				P	
					-	-		-	
					·				
Type: C=Con	centration. D=D	epletion. F	RM=Reduce	d Matrix ² Location		-		nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for Pr	oblemati	c Hydric S	ioils: ³		
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer	
Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	\checkmark	Other (Explain in Remar	ks)
Thick Dark	Surface (A12)								
Alaska Gley	red (A13)			³ One indicator of and an appropriat				nary indicator of wetland l	hydrology,
Alaska Red	ox (A14)								
Alaska Gley	ed Pores (A15)			⁴ Give details of c	olor chang	e in Remar	ks		
Restrictive Laye	r (if present):								
Type:	(p							Hydric Soil Present	? Yes 🖲 No 🔿
Depth (inch	es):								
Remarks:									
Assume hydric s	oil due to hydro	nhvtic veg	etation and	standing water					
Assume flyane a		phyde veg		Standing Water					
HYDROLO	_								
Wetland Hydr									cators (two or more are required)
	ors (any one is	sufficient)						_	ined Leaves (B9)
✓ Surface W				Inundation V		-			Patterns (B10)
	r Table (A2)			Sparsely Veg		ncave Surfa	ice (B8)		thizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposit	• •				of Reduced Iron (C4)
Water Mar				Hydrogen Su				Salt Depos	
_	Deposits (B2)			Dry-Season V		• •		_	Stressed Plants (D1)
Drift Depo				Other (Explai	in in Rema	rks)			ic Position (D2)
	or Crust (B4)							_	quitard (D3)
Iron Depos	il Cracks (B6)							FAC-neutra	graphic Relief (D4)
								▼ FAC-neutra	ar Test (D3)
Field Observa		Yes 🖲		Donth (incha	a), 12				
Surface Water		-	-	Depth (inche					
Water Table Pr		Yes 🔿	No 🛡	Depth (inche	s):		Wetlar	nd Hydrology Preser	it? Yes 🖲 No 🔾
Saturation Pres (includes capill		Yes 🔿	No 🖲	Depth (inche	s):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
appears to be a	seasonally floor	led nond							
appears to be a	scasonally 1000	icu ponu.							