WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site	e: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12								
Applicant/C	Owner: Alaska Energy Authority			-	Sampling Point: SW12_T29_01								
Investigato		side, terrac	e, hummocks etc.): Lowland										
-	f (concave, convex, none): concave		Slope:	· · · · · · · · · · · · · · · · · · ·									
Subregion	Southcentral Alaska	Lat.:	62.792198193		Long.: -148.821405736 Datum: NAD83								
Soil Map U			02.102100100	NWI classification: PSS1/EM1E									
	Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
Are Vege		•	tly disturbed?		Iormal Circumstances" present? Yes No								
Are Vege		-	problematic?		eded, explain any answers in Remarks.)								
Ũ													
SUMMAI	RY OF FINDINGS - Attach site map show	ving sa	mpling point	locations	s, transects, important features, etc.								
Hyd	drophytic Vegetation Present? Yes $oldsymbol{O}$ No $igodoldsymbol{O}$		Is the Sampled Area										
Hyd	dric Soil Present? Yes \bigcirc No \bigcirc												
	Wetland Hydrology Present? Yes No V												
Remarks:	Site is morainal depression Phenology a bit early												
VEGETA	TION - Use scientific names of plants. Lis	st all sp	becies in the	plot.	1								
		Absolut		Indicator	Dominance Test worksheet:								
Tree Str	ratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)								
1.		0			Total Number of Dominant								
2		0			Species Across All Strata:3_ (B)								
		0			Percent of dominant Species								
4. 5.		0			That Are OBL, FACW, or FAC: (A/B)								
5	Total Cover:	0	_		Prevalence Index worksheet:								
Conling			— % of Total Cover:	0	Total % Cover of: Multiply by:								
Saping		020			OBL Species $5 \times 1 = 5$								
	tula nana	15		FAC	FACW Species 7 $x^2 = 14$								
	dromeda polifolia			FACW	FAC Species $67 \times 3 = 201$ FACU Species $0 \times 4 = 0$								
	ccinium uliginosum	20	_	FAC	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $								
	ododendron tomentosum npetrum nigrum	2		FACW									
6.		0			Column Totals: <u>79</u> (A) <u>220</u> (B)								
7.		0			Prevalence Index = B/A =2.785_								
8.		0			Hydrophytic Vegetation Indicators:								
		0	_		✓ Dominance Test is > 50%								
10.		0			✓ Prevalence Index is \leq 3.0								
	Total Cover:				Morphological Adaptations ¹ (Provide supporting data in								
Herb St	ratum 50% of Total Cover:	20 20	0% of Total Cover	: 8	Remarks or on a separate sheet)								
1. <u>Ca</u>	arex bigelowii	30		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)								
	chophorum caespitosum			OBL	¹ Indicators of hydric soil and wetland hydrology must								
v	iophorum russeolum	2		FACW	be present, unless disturbed or problematic.								
	dicularis labradorica			FACW	Plot size (radius, or length x width)								
	iophorum vaginatum		-	FACW	% Cover of Wetland Bryophytes 10								
			- 🗆		(Where applicable)								
			-		% Bare Ground								
		0			Total Cover of Bryophytes <u>30</u>								
		0			Hadaan ka Ma								
10	Total Cover:	39	_		Hydrophytic Vegetation								
	50% of Total Cover: <u>1</u>	-		7.8	Present? Yes O No								
Remarks	Check tricae												

SOIL

	Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features											
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture		Remarks		
0-2		-,				.,,,,		Fibric Organics				
2-12						· ·		Hemic Organics	#			
					-							
¹ Type: C=Co	ncentration. D=[Depletion. F	RM=Reduce	ed Matrix ² Location:	PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil 1	Indicators:			Indicators for Pro	blematio	: Hydric So	oils: ³					
	or Histel (A1)			Alaska Color Cha		4		Alaska Gleyed Witho	ut Hue 5Y or Redd	er		
	pedon (A2)			Alaska Alpine sv		-		Underlying Layer				
	Sulfide (A4)			Alaska Redox W	ith 2.5Y F	lue		Other (Explain in Remarks)				
	k Surface (A12)											
	eyed (A13)							nary indicator of wetla	ind hydrology,			
	dox (A14)			and an appropriate	anuscar	e posicion i	nust be pre	esent				
🗌 Alaska Gl	eyed Pores (A15)			⁴ Give details of col	or change	e in Remark	s					
Restrictive Lav	er (if present):											
-	ive layer (frozen)							Hydric Soil Pres	ent? Yes 🦲) No ()		
Depth (inc								Hydric Son Fres				
Remarks:												
Since frozen @ 12 in, not able to determine if histosol												
HYDROLC)GY											
Wetland Hyd	Irology Indicat	ors:						Secondary	Indicators (two or	more are required)		
Primary Indic	ators (any one is	sufficient)						Water	Stained Leaves (B	9)		
Surface \	Water (A1)			Inundation Vision	sible on A	erial Image	ry (B7)	Draina	age Patterns (B10)			
High Water Table (A2)				Sparsely Vege	tated Cor	cave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots				
✓ Saturatio	n (A3)			Marl Deposits	(B15)			Preser	n (C4)			
U Water Ma	arks (B1)	Hydrogen Sulf	ide Odor	(C1)		Salt D	eposits (C5)					
Sediment Deposits (B2)				Dry-Season W				_	ed or Stressed Plant			
	osits (B3)			Other (Explain	in Rema	rks)			orphic Position (D2)		
	t or Crust (B4)								w Aquitard (D3)			
Iron Dep	Iron Deposits (B5)								Microtopographic Relief (D4)			
Surface S	Soil Cracks (B6)							FAC-n	eutral Test (D5)			
Field Observ	ations:	\sim	\sim									
Surface Wate	er Present?	Yes \bigcirc	No 🔍	Depth (inches):							
Water Table	Present?	Yes 🖲	No \bigcirc	Depth (inches): 4		Wetla	nd Hydrology Pre	sent? Yes	● No ○		
Saturation Pr (includes cap		Yes 🖲	No \bigcirc	Depth (inches								
Describe Reco	rded Data (strea	n gauge, n	nonitor wel	l, aerial photos, previ	ous inspe	ction) if ava	ailable:					
	, .											
Remarks:												
Pockets of surface water 2 in deep, possibly present only seasonally												
				. ,								