WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Jul-13			
nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T137_06					
		Landform (hill	side, terrac	e, hummocks etc.): Gulch or Gully			
elief (concave, convex, none): concave		Slope:	%/ 0.6	6° Elevation: 979			
	Lat ·	62 820525552		Long.: -148.900999512 Datum: NAD83			
	Lut	02.029525552	.0				
• •				NWI classification: PEM1F			
				(If no, explain in Remarks.) Jormal Circumstances" present? Yes ● No ◯			
	-	-					
egetation, Soil, or Hydrology	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
IARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes • No)						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,)	ls	the Sam				
		wi	thin a W	/etland? Yes $ullet$ No $igodoldsymbol{ imes}$			
		aully on bench	above lake				
1 3 7 7 1	,	5,					
TATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.	Deminence Test werksheet			
				Dominance Test worksheet: Number of Dominant Species			
			Status	That are OBL, FACW, or FAC: <u>3</u> (A)			
				Total Number of Dominant			
				Species Across All Strata: (B)			
				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
Total Cover		. 🖵		Prevalence Index worksheet:			
		of Total Cover	0	Total % Cover of: Multiply by:			
	20%			OBL Species $5 \times 1 = 5$			
Salix fuscescens	5		FACW	FACW Species 35 x 2 = 70			
Betula nana	-		FAC	FAC Species 12 x 3 = 36			
Vaccinium uliginosum			FAC	FACU Species $0 \times 4 = 0$			
				UPL Species x 5 =			
				Column Totals: <u>52</u> (A) <u>111</u> (B)			
				Prevalence Index = B/A =2.135			
				Hydrophytic Vegetation Indicators:			
				Dominance Test is > 50%			
				Prevalence Index is ≤3.0			
		% of Total Cover	: 2.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Caray mambranagaa	30			Problematic Hydrophytic Vegetation ¹ (Explain)			
				¹ Indicators of hydric soil and wetland hydrology must			
Erionhorum ongustifolium				be present, unless disturbed or problematic.			
				Plot size (radius, or length x width) <u>10m</u>			
	-			% Cover of Wetland Bryophytes (Where applicable)			
	-			% Bare Ground			
				Total Cover of Bryophytes			
	0						
	0			Hydrophytic			
	0			Hydrophytic Vegetation Present? Yes • No •			
	ant/Owner: Alaska Energy Authority gator(s): WAD, BAB relief (concave, convex, none): concave gion : Southcentral Alaska ap Unit Name: matic/hydrologic conditions on the site typical for this t //egetation , Soil , or Hydrology //egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho Hydrophytic Vegetation Present? Yes • No (Hydric Soil Present? Yes • No (Wetland Hydrology Present? Yes • No (Wetland Hydrology Present? Yes • No (Wetland Hydrology Present? Yes • No (arks: patches of wet sedge meadow, water, and expose ETATION - Use scientific names of plants. L e Stratum Find Cover: Salix fuscescens Betula nana Vaccinium uliginosum Total Cover: Carex membranacea Carex bigelowii Eriophorum angustifolium	ant/Owner: Alaska Energy Authority gator(s): WAD, BAB relief (concave, convex, none): concave gion : Soutcentral Alaska Lat.: ap Unit Name: matic/hydrologic conditions on the site typical for this time of year /egetation , Soil , or Hydrology naturally p MARY OF FINDINGS - Attach site map showing sar Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No No Hydric Soil Pr	ant/Owner: Alaska Energy Authority gator(s): WAD, BAB relief (concave, convex, none): concave gion: Southcentral Alaska ap Unit Name:	ant/Owner: Alaska Energy Authority gator(s): WAD, BAB Landform (hillside, terrac relief (concave, convex, none): concave Slope: % / 0.0 gion : Southcentral Alaska Lat: 62.8295255526 put Name: matic/hydrologic conditions on the site typical for this time of year? Yes ● No ○ No ○ re 'N //egetation : , Soil : , or Hydrology : significantly disturbed? Are 'N @getation : , Soil : , or Hydrology : naturally problematic? (If ner MARY OF FINDINCS - Attach site map showing sampling point locations: Hydrophytic Vegetation Present? Yes ● No ○ Is the Sam Hydrophytic Vegetation Present? Yes ● No ○ Is the Sam within a W arks: patches of wet sedge meadow, water, and exposed soil, in gully on bench above lake O			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features										
Depth (inches) Color (n	noist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Re	emarks	
								-		
·										
								<u>a</u>		
¹ Type: C=Concentration. I	D=Depletion. R	M=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Indicatory	-		Indicators for Pr	oblemati	- Hydric S	aile, ³				
Hydric Soil Indicators:			Alaska Color Ch		4	ліз. Г	Alaska Claved Without H	ue EV er Dedder		
Histosol or Histel (A1)			Alaska Color Ci		-		Alaska Gleyed Without H Underlying Layer	ue 51 or Redder		
Histic Epipedon (A2)			Alaska Redox V	-	-	\checkmark	Other (Explain in Remark	ട)		
Thick Dark Surface (A1)	2)			101 2.51 1	luc			,		
Alaska Gleyed (A13)	2)						nary indicator of wetland h	ydrology,		
Alaska Redox (A14)			and an appropriat	te landscap	pe position i	nust be pre	esent			
Alaska Gleyed Pores (A	15)		⁴ Give details of co	olor chang	e in Remark	S				
	-									
Restrictive Layer (if present Type:).						Hydric Soil Present	?Yes 🖲	No O	
Depth (inches):							Hydric Soli Present	r ies 🖯		
assume hydric soil due to h	drophytic vege	etation and	d inundation.							
HYDROLOGY										
Wetland Hydrology Indi								cators (two or mo	re are required)	
Primary Indicators (any on	e is sufficient)							ned Leaves (B9)		
Surface Water (A1)			Inundation V		-		✓ Drainage F			
High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Saturation (A2) High Vegetated Concave Surface (B8)						ce (B8)	Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)			
Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)								.4)		
Sediment Deposits (B2	')		Dry-Season \					Stressed Plants (I	(10	
Drift Deposits (B3)	•)		Other (Explai		``			ic Position (D2)	51)	
Algal Mat or Crust (B4)				11(3)			uitard (D3)		
Iron Deposits (B5)							_	raphic Relief (D4)	1	
Surface Soil Cracks (B	5)						FAC-neutra	il Test (D5)		
Field Observations:	_									
Surface Water Present?	Yes 🖲	No 🔿	Depth (inche	es): 2						
Water Table Present?	Yes \bigcirc	No 🖲	Depth (inche	es): 0		Wetla	nd Hydrology Presen	t?Yes 🖲	No 🔿	
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche							
Describe Recorded Data (st	ream gauge, m	ionitor wel	l, aerial photos, prev	vious inspe	ection) if ava	ilable:				
Remarks:										

patches of saturated bare soil, large angular cobbles, wet sedge marsh and perm flooded ponds.