## WETLAND DETERMINATION DATA FORM - Alaska Region

Bo	rough/City:	Matanusk	ka-Susitna Borough Sampling Date: 01-Aug-12					
			Sampling Point: SW12_T41_02					
Applicant/Owner: Alaska Energy Authority  Investigator(s): SLI, KMK Landform (hillside, ter								
			1 ° Elevation: 826					
lat: 6	2 903503061		Long.: -148.0154774 Datum: NAD83					
	2.003393001		•					
	Voo	● No ○	NWI classification: PEM1F					
ignificantly aturally pro	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.					
	Is	the Sam	ipled Area					
	VV I	umi a vv	etialiu:					
t all spec Absolute % Cover			Dominance Test worksheet:  Number of Dominant Species					
0			That are OBL, FACW, or FAC: 2 (A)					
0			Total Number of Dominant Species Across All Strata: 2 (B)					
0			Percent of dominant Species					
0			That Are OBL, FACW, or FAC: 100.0% (A/B)					
0			Prevalence Index worksheet:					
			Total % Cover of: Multiply by:					
0 20% o	of Total Cover:	0	OBL Species 90 x 1 = 90					
5	<b>✓</b>	FAC	FACW Species 0 x 2 = 0					
			FAC Species6 x 3 =18					
_			FACU Species0 x 4 =0					
_			UPL Species <u>0</u> x 5 = <u>0</u>					
0			Column Totals: 96 (A) 108 (B)					
0								
0			Prevalence Index = B/A = 1.125					
0			Hydrophytic Vegetation Indicators:					
0			Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%					
0 0								
0 5			<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>✓ Morphological Adaptations <sup>1</sup> (Provide supporting data in</li> </ul>					
0 5 2.5 20% (	of Total Cover		<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>					
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0 5 22.5 20% o 10 80 1 0	of Total Cover	OBL OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>□ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must</li> </ul>					
0 5 20% 6 10 80 1 0	of Total Cover	OBL OBL	✓ Dominance Test is > 50%     ✓ Prevalence Index is ≤3.0       Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)     ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)					
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	Lat.: 6  Lat.: 6  The of year?  In a significantly aturally proving sample  The absolute of the cover of the	Landform (hill Slope:  Lat.: 62.803593061  The of year? Yes ignificantly disturbed? aturally problematic?  Ving sampling point  Is with all species in the Matter of Cover    0	Landform (hillside, terrace Slope: % / 2.1  Lat.: 62.8035930618  The of year? Yes No pignificantly disturbed? Are "No aturally problematic? (If need in the same within a With					

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SOIL Sampling Point: SW12\_T41\_02

	ion: (Describe to the depth needed to do <b>Matrix</b>			ocument the indicator or confirm the absence of indicators)  Redox Features							
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
				Color (illosot)		.,,,,					
-					-						
¹Type: C=Co	ncentration. D=	Depletion. F		d Matrix <sup>2</sup> Location				nnel. M=Matrix			
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: <sup>3</sup>						oils: <sup>3</sup>					
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	1) 4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
✓ Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	rs)		
Thick Darl	Surface (A12)										
Alaska Gle	eyed (A13)			One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Re	dox (A14)			ана ан арргорнас	e iariusca <sub>l</sub>	e position i	nust be pre	23CHC			
Alaska Gle	eyed Pores (A15	)		<sup>4</sup> Give details of co	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								<b>Hydric Soil Present</b>	? Yes ● No ○		
Depth (incl	nes):							•			
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stained Leaves (B9)			
✓ Surface V	Vater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage F	Patterns (B10)		
High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)				
Saturation	Saturation (A3)  Marl Deposits (B15)							Presence of Reduced Iron (C4)			
☐ Water Ma	rks (B1)			✓ Hydrogen Su	lfide Odor	(C1)		Salt Deposits (C5)			
Sediment	Sediment Deposits (B2)  Dry-Season Water Table (C2)							Stunted or Stressed Plants (D1)			
Drift Depo	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							✓ Geomorphic Position (D2)			
Algal Mat	Algal Mat or Crust (B4)								Shallow Aquitard (D3)		
✓ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)		
Surface S	oil Cracks (B6)							<b>✓</b> FAC-neutra	l Test (D5)		
Field Observa	ations:		_								
Surface Wate	r Present?	Yes 💿	No O	Depth (inche	s): 6						
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre		Yes O			•			- <b>-</b>			
(includes capi	llary fringe)			Depth (inche							
Describe Recor	ded Data (strea	am gauge, n	nonitor well,	aerial photos, prev	ious inspe	ection) if ava	ilable:				
Remarks:											
	nges from 2-12	+ in. iron fl	oc and hing	enic sheen, in large	depressio	n between a	adiacent kn	nobs.			
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