WETLAND DETERMINATION DATA FORM - Alaska Region

roject	Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12			
pplica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T49_07			
vestig	ator(s): SLI, KMK		Landform (hill	side, terrac	e, hummocks etc.): Flat			
cal r	lief (concave, convex, none): flat		Slope:	%/ 0.6	6° Elevation: 712			
brea	on : Interior Alaska Mountains	Lat ·	62.813258125		Long.: -148.412635719 Datum: NAD83			
-	o Unit Name:	-	02.010200120		NWI classification: PEM1F			
			•	• No ()				
Are V Are V		significantl naturally p	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No ◯ Hydric Soil Present? Yes ● No ◯		ls	the Sam	pled Area			
	,				Wetland? Yes No			
	Wetland Hydrology Present? Yes $oldsymbol{igstar}$ No $igstar$ rks: floating sphagnum mats with sedges. scattered s							
EGE	TATION - Use scientific names of plants. L	Absolute	Dominant	Indicator	Dominance Test worksheet:			
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.		0			Total Number of Dominant			
2.		0			Species Across All Strata: (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC:(A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover		(=		Total % Cover of: Multiply by:			
Sap	ing/Shrub Stratum 50% of Total Cover:	_0 20%	of Total Cover	0	OBL Species x 1 =			
1.		0			FACW Species <u>10</u> x 2 = <u>20</u>			
2.		0			FAC Species $0 \times 3 = 0$			
3.		0			FACU Species $0 \times 4 = 0$			
4.					UPL Species x 5 =			
5.					Column Totals: <u>35</u> (A) <u>45</u> (B)			
6.					Prevalence Index = B/A =1.286			
7.								
8.		0			Hydrophytic Vegetation Indicators:			
		0			Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Herl	Total Cover Stratum50% of Total Cover:		6 of Total Cover	:	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Eriophorum russeolum	10		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Carex utriculata	5		OBL	¹ Indicators of hydric soil and wetland hydrology must			
	Carex rotundata	-		OBL	be present, unless disturbed or problematic.			
				. <u> </u>	Plot size (radius, or length x width)			
		-			% Cover of Wetland Bryophytes			
		-			(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes100			
a								
		0			Hydrophytic			
	Tatal Cause							
	Total Cover 50% of Total Cover:		of Total Cover		Vegetation Present? Yes No			

SOI	L

Profile Description: (Describe to Depth	the depth need Matrix	led to docume		firm the abs			-		
(inches) Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
		,							
					·				
							·		
¹ Type: C=Concentration. D=	Depletion. R				-		annel. M=Matrix		
Hydric Soil Indicators:			Indicators for Pro		4	oils:"	_		
Histosol or Histel (A1)			Alaska Color Ch				Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A2)							Underlying Layer		
Hydrogen Sulfide (A4)			Alaska Redox W	/ith 2.5Y H	lue	V	Other (Explain in Remark	S)	
Thick Dark Surface (A12))		³ One indicator of I	hvdrophyt	ic vegetatio	n. one prin	nary indicator of wetland h	vdrology.	
Alaska Gleyed (A13)			and an appropriate						
Alaska Redox (A14)			⁴ Give details of co	lor change	e in Remark	S			
Alaska Gleyed Pores (A15)					-			
Restrictive Layer (if present):									
Туре:							Hydric Soil Present	? Yes $ullet$ No $igodom$	
Depth (inches):									
Remarks:									
floating sphagnum mats, no s	oil pit. assum	ne hydric so	ils due to standing v	water and	hydrophytic	c vegetatio	n.		
HYDROLOGY									
Wetland Hydrology Indica	tors:		-				Secondary Indi	cators (two or more are required)	
Primary Indicators (any one i	s sufficient)						Water Stai	ned Leaves (B9)	
Surface Water (A1)			Inundation Vis	sible on Ae	erial Imager	ry (B7)	Drainage F	atterns (B10)	
High Water Table (A2)			Sparsely Vege	stated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)			Marl Deposits	(B15)				f Reduced Iron (C4)	
Water Marks (B1)			Hydrogen Sulf	fide Odor	(C1)		Salt Depos	its (C5)	
Sediment Deposits (B2)			Dry-Season W	later Table	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Deposits (B3)			Other (Explain	ו in Remar	rks)		Geomorph	ic Position (D2)	
Algal Mat or Crust (B4)							_	uitard (D3)	
Iron Deposits (B5)							_	raphic Relief (D4)	
Surface Soil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)	
Field Observations:		\bigcirc							
Surface Water Present?	Yes 🖲	-	Depth (inches	5): 4					
Water Table Present?	Yes \bigcirc	No 🖲	Depth (inches	5):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches	s):					

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

floating sphagnum mats w 0 to 12+ in standing water, avg depth ca 4in.