## WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 27-Jun-12				
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T22_03				
Invest	igator(s): JGK		Landform (hill	ndform (hillside, terrace, hummocks etc.): Shoulder slope					
Local	relief (concave, convex, none): concave		% / 10.5 ° Elevation: 792						
Subre	gion : Interior Alaska Mountains	Lat ·	62.763728008						
	ap Unit Name:		02.703720000						
	· -		0 V	No ○	NWI classification: Upland				
	matic/hydrologic conditions on the site typical for this til	•	y disturbed?		(If no, explain in Remarks.)  Jormal Circumstances" present? Yes ● No ○				
		0	roblematic?		tormar orroamotanoco procont.				
Are	vegetation — , Soii — , or hydrology — r	laturally p	robiematic?	(IT nee	eded, explain any answers in Remarks.)				
SUM	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes   No C	)	_						
	Hydric Soil Present? Yes ○ No ●	)	Is the Sampled Area						
	Wetland Hydrology Present? Yes No •	)	wi	within a Wetland? Yes ○ No ⑥					
Rem	arks:								
VEG	ETATION -Use scientific names of plants. Li	st all sne	cies in the	nlot					
	2 ose scientific flames of plants. Li	•		•	Dominance Test worksheet:				
Tre	ee Stratum	Absolute % Cover		Status	Number of Dominant Species				
1.		0		-	That are OBL, FACW, or FAC: 4 (A)				
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)				
3.		0			Percent of dominant Species				
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cover:	0			Total % Cover of: Multiply by:				
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0				
1.	Dasiphora fruticosa	10		FAC	FACW Species 0 x 2 = 0				
2.	Alnus viridis			FAC	FAC Species 99 x 3 = 297				
3.	Betula glandulosa	20	<b>✓</b>	FAC	FACU Species 0 x 4 = 0				
4.	Rhododendron groenlandicum	15	<b>✓</b>	FAC	UPL Species 0 x 5 = 0				
5.	Vaccinium uliginosum	25	<b>✓</b>	FAC	Column Totals: <u>99</u> (A) <u>297</u> (B)				
6.	Salix reticulata	10		FAC					
7.	Salix pseudomonticola	2		FAC	Prevalence Index = B/A = 3.000				
8.	Empetrum nigrum	10		FAC	Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
	Total Cover:				Morphological Adaptations <sup>1</sup> (Provide supporting data in				
	rb Stratum 50% of Total Cover:	46.5 20%			Remarks or on a separate sheet)				
	Equisetum arvense		<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	Chamaenerion latifolium			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
					be present, unless disturbed or problematic.				
		^			Diet size (redius, or longth y width)				
4.					Plot size (radius, or length x width)				
4. 5.		0			% Cover of Wetland Bryophytes 0				
4. 5. 6.		0		_	% Cover of Wetland Bryophytes (Where applicable)				
4. 5. 6. 7.		0 0			% Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  5				
4. 5. 6. 7. 8.		0 0 0		<u></u>	% Cover of Wetland Bryophytes (Where applicable)				
4. 5. 6. 7. 8. 9.		0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes  40				
4. 5. 6. 7. 8. 9.		0 0 0 0 0			% Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  5				

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SOIL Sampling Point: SW12\_T22\_03

Profile Descripti		ne depth needed t	to document the indicator or co	onfirm the ab		icators)					
Depth (inches)						_Loc_2	Texture	Remarks			
0-2	Color (mois	st) <u>%</u> 85	Color (moist)		Type <sup>1</sup>	Loc	Fibric Organics	15% roots			
							-	. —			
2-5							Hemic Organics	20% roots			
5-14		65					Sapric Organics	w/35% semiangular gravel to boulders			
-						-	-				
-							-				
¹Type: C=Cor	ncentration. D=I	Depletion. RM=	Reduced Matrix <sup>2</sup> Location		_		annel. M=Matrix	. ————			
Hydric Soil I	ndicators:		Indicators for P		4	Soils:	_				
Histosol or	r Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	pedon (A2)		_	Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		☐ Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remark	(s)			
Thick Dark	k Surface (A12)		3 One indicator o	f hudronhu	±' = voqotati	and prin	indicator of wotland b	ر بهم داداد. د			
Alaska Gle	, , ,		and an appropria	f nyaropny ate landsca	tic vegetation pe position	on, one prin	mary indicator of wetland hesent	lydrology,			
Alaska Red	dox (A14)										
	eyed Pores (A15)	<u> </u>	<sup>4</sup> Give details of o	color chang	e in Remar	·ks					
Restrictive Laye	er (if present):										
Type:							Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):										
HYDROLO											
Wetland Hyd	rology Indicat	ors:					Secondary Indi	cators (two or more are required)			
Primary Indica	ators (any one is	sufficient)					Water Stained Leaves (B9)				
Surface W	Vater (A1)		Inundation \	Inundation Visible on Aerial Imagery (B7)				Patterns (B10)			
High Wate	er Table (A2)		Sparsely Ve	Sparsely Vegetated Concave Surface (B8)				chizospheres along Living Roots (C3)			
Saturation	` '		Marl Deposit	ts (B15)				of Reduced Iron (C4)			
☐ Water Ma			Hydrogen Si				Salt Depos				
	Deposits (B2)		☐ Dry-Season					Stressed Plants (D1)			
☐ Drift Depo			Other (Expla	ain in Rema	arks)			ic Position (D2)			
	or Crust (B4)							quitard (D3)			
☐ Iron Depo	` '							graphic Relief (D4)			
	oil Cracks (B6)					1	☐ FAC-neutra	al Test (D5)			
Field Observa		Yes O No		_							
Surface Water			-1 - 1	es):							
Water Table P	resent?	Yes O No	o 💿 Depth (inch	es):		Wetla	nd Hydrology Presen	it? Yes O No 🖲			
Saturation Pre (includes capil		Yes O No	Depth (inch	es):							
Describe Recor	ded Data (strea	m gauge, moni	itor well, aerial photos, pre	evious inspe	ection) if av	/ailable:					
Remarks:											

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