WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12			
Applicant/Owner: Alaska Energy Authority	-	Sampling Point: SW12_T33_06					
Investigator(s): SLI, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Swale			
Local relief (concave, convex, none): hummocky		Slope:	% / 1.5				
Subregion : Interior Alaska Mountains	l at ·	 62.783458121		Long.: -148.397955743 Datum: NAD83			
Soil Map Unit Name:		02.703430121	13	NWI classification: PEM1E			
	4h:- 4:£	2 Voo	● No ○				
Are climatic/hydrologic conditions on the site typical for Are Vegetation ☐ , Soil ☐ , or Hydrology Are Vegetation ☐ , Soil ☑ , or Hydrology	significan	tly disturbed? problematic?	Are "N	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map	showing sa	mpling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes O	No O	_					
Hydric Soil Present? Yes Yes	No O		s the Sampled Area				
	!4 -!						
Remarks: wet sedge drainageway							
VEGETATION - Use scientific names of plan	ts. List all sp Absolut % Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.				That are OBL, FACW, or FAC: 4 (A)			
2				Total Number of Dominant Species Across All Strata: 4 (B)			
3.		-		Percent of dominant Species			
4.				That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	0			Prevalence Index worksheet:			
Total	Cover: 0	_		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover	r: <u>0</u> 20	% of Total Cover:	0	OBL Species 42 x 1 = 42			
Andromeda polifolia (IAM)	1		OBL	FACW Species 22 x 2 = 44			
Betula nana			FAC	FAC Species 15 x 3 = 45			
3. Dasiphora fruticosa	1		FAC	FACU Species <u>0</u> x 4 = <u>0</u>			
4. Empetrum nigrum	า		FAC	UPL Species 0 x 5 = 0			
5. Rhododendron tomentosum		✓	FACW	Column Totals:79 (A)131 (B)			
6.	0						
7.	•			Prevalence Index = B/A =1.658_			
8	0			Hydrophytic Vegetation Indicators:			
9		_ =		✓ Dominance Test is > 50%			
10	0	_		Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cove	Cover: 7 er: 3.5 20		: 1.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Carex aquatilis	10		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
Eriophorum russeolum			FACW	¹ Indicators of hydric soil and wetland hydrology must			
3. Trichophorum caespitosum			OBL	be present, unless disturbed or problematic.			
4. Carex bigelowii		_	FAC	Plot size (radius, or length x width) 10m			
5. Eriophorum angustifolium			OBL	% Cover of Wetland Bryophytes			
6. Tofieldia pusilla		_	FAC	(Where applicable)			
7. Pinguicula vulgaris		_	OBL	% Bare Ground 40			
8.	0	-		Total Cover of Bryophytes 20			
9	$\frac{}{}$	-					
10Total	Hydrophytic Vegetation						
50% of Total Cover		_ % of Total Cover:	14.4	Present? Yes • No O			
				etter, pressed for later id. shrubs on small hummocks.			

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SOIL Sampling Point: SW12_T33_06

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)				
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
		-									
								-			
									-		
-			———		-			-			
					-						
			— —								
¹ Type: C=Cor	ncentration. D=I	Depletion. I		Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:]	Indicators for Pr		4	oils:				
	r Histel (A1)		Ĺ	Alaska Color Ch		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
Histic Epip			L	Alaska Alpine s	•	•	.	✓ Other (Explain in Remarks)			
	Sulfide (A4)		L	Alaska Redox V	Vith 2.5Y F	lue	V	Other (Explain in Remark	(5)		
	Surface (A12)			³ One indicator of	hydrophyt	ic vegetatio	n, one prim	ary indicator of wetland h	ydrology,		
Alaska Gle				and an appropriat					, 5,,		
	eyed Pores (A15))		4 Give details of co	olor chang	e in Remark	is .				
Restrictive Laye	er (if present):										
Type:	. ()							Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):							•			
Remarks:											
no soil pit due	to standing wat	er througho	out site. assu	ıme hydric soils du	e to hydro	phytic vege	tation and p	orimary hydrology indicato	ors.		
							-				
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
✓ Surface W	. ,			Inundation V	isible on A	erial Imagei	ry (B7)		Patterns (B10)		
✓ High Wate	. ,			Sparsely Veg	etated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation	` ,			Marl Deposits	` ,				f Reduced Iron (C4)		
Water Ma				Hydrogen Su				☐ Salt Depos			
☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2) ☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)									Stressed Plants (D1)		
	. ,			Uther (Explai	in in Rema	rks)		_	ic Position (D2)		
Iron Depo	or Crust (B4)								juitard (D3) graphic Relief (D4)		
= '	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	,										
Surface Water		Yes	$_{No}$ \bigcirc	Depth (inche	s): 4						
Water Table P	Present?	Yes	No O	Depth (inche	-		Wetlan	d Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre				. ,	•		110000				
(includes capi		Yes	No U	Depth (inche	es): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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