WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T121_03		
nvestigator(s): JGK	e, hummocks etc.): Flat					
Local relief (concave, convex, none): hummocky		Slope:	%/ 7.7	' ° Elevation: 391		
Subregion : Southcentral Alaska	l at ·			Long.: -149.571566948 Datum: NAD83		
	5					
Soil Map Unit Name:			• No ()	NWI classification: PSS1/EM1E		
Are climatic/hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map sh	significantly	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	0					
Hydric Soil Present? Yes • No		npled Area				
Wetland Hydrology Present? Yes • No	etland? Yes Yes No 					
Remarks: game trail, swainson's thrush singing						
/EGETATION - Use scientific names of plants.	List all spe Absolute % Cover		olot. Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1.	0			That are OBL, FACW, or FAC: (A)		
2.	0			Total Number of Dominant Species Across All Strata: 3 (B)		
2	0					
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	0					
Total Cov	ver: 0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $86.3 \times 1 = 86.3$		
		\checkmark	0.01	FACW Species $5.1 \times 2 = 10.2$		
Myrica gale Dasiphora fruticosa			OBL FAC	FAC Species $10 \times 3 = 30$		
2. Dasiphora fruticosa 3. Andromeda polifolia	5		FAC	FACU Species $2 \times 4 = 8$		
	0.1		OBL	UPL Species $0 \times 5 = 0$		
			OBE			
				Column Totals: <u>103.4</u> (A) <u>134.5</u> (B)		
6 7.	0			Prevalence Index = B/A = <u>1.301</u>		
8	0			Hydrophytic Vegetation Indicators:		
9.	0			✓ Dominance Test is > 50%		
10.	0			✓ Prevalence Index is ≤ 3.0		
Total Cov	ver:50.1			\square Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover:		6 of Total Cover	10.02	Remarks or on a separate sheet)		
1. Menyanthes trifoliata	10	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Trichophorum caespitosum	25	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3. Carex aquatilis	5		OBL	be present, unless disturbed or problematic.		
4. Eriophorum angustifolium	0.1		OBL	Plot size (radius, or length x width) 10m		
5. Drosera rotundifolia	1		OBL	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 20		
6. Trientalis europaea	2		FACU	(Where applicable)		
7. Carex rariflora	5		OBL	% Bare Ground		
8. Trichophorum alpinum	5		OBL	Total Cover of Bryophytes		
9. Eriophorum viridicarinatum	0.1		OBL			
10. Viola palustris	0.1		FACW	Hydrophytic		
		- (T-+-) 0	40.55	Vegetation Present? Yes • No ·		
50% of Total Cover:	26.6520%	of Total Cover:	10.66			
Remarks: 1% dodecatheon						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features										
Depth (inches)	Color (mois	t) %	Color (moist)	%	Type ¹	Loc 2	- т	exture	R	emarks
0-15		<u>-70</u>		-70	Туре	LUC			Fibric Organics	
									<u>la-</u>	
						·				
						·				
									<u>-</u>	
¹ Type: C=Cor	ncentration. D=[Depletion. RM=R	educed Matrix ² Location	n: PL=Pore	e Lining. R	C=Root Cha	annel. M=M	atrix		
Hydric Soil I	ndicators:		Indicators for P	oblematio	Hydric S	Soils ³				
Histosol or	Histel (A1)		🗌 Alaska Color C	hange (TA-	ł) ⁴				ue 5Y or Redder	
✓ Histic Epip	edon (A2)		Alaska Alpine	wales (TA5	5)	_	Underlyir	•		
Hydrogen	Sulfide (A4)		Alaska Redox V	Nith 2.5Y F	lue		Other (Ex	plain in Remark	s)	
Thick Dark	Surface (A12)									
🗌 Alaska Gle	yed (A13)		³ One indicator of and an appropria	hydrophyt	ic vegetati	on, one prin	nary indica	tor of wetland h	ydrology,	
🗌 Alaska Red	lox (A14)			te ianuscap	e posicion	must be pre	esent			
🗌 Alaska Gle	yed Pores (A15)		⁴ Give details of c	olor change	e in Remar	ks				
Restrictive Laye	er (if present):									
Type: FRO							Hydric	Soil Present	?Yes 🖲	No O
Depth (inch							nyane	oon resent		
Remarks:	,									
LIKELY HISTOS	OL GIVEN OTHE	R SITE CONDIT.	IONS							
HYDROLO	GY									
	rology Indicat	ors:						Secondary India	cators (two or mo	re are required)
-	tors (any one is								ned Leaves (B9)	
Surface W	/ater (A1)		Inundation V	isible on A	erial Image	erv (B7)			atterns (B10)	
✓ High Wate	. ,		Sparsely Vec		-				. ,	Living Roots (C3)
✓ Saturation (A3)						()	Presence of Reduced Iron (C4)			
Water Marks (B1) Hydrogen Sulfide Odor (C1)								Salt Depos	its (C5)	,
Sediment Deposits (B2)							Stunted or Stressed Plants (D1)			
Drift Depo	,		Other (Expla		. ,		Geomorphic Position (D2)			
Algal Mat or Crust (B4)								Shallow Aq	. ,	
Iron Deposits (B5)									raphic Relief (D4))
	oil Cracks (B6)							✓ FAC-neutra		, ,
Field Observa	. ,									
Surface Water		Yes 🔿 No	 Depth (inche 	es):						
Water Table P		Yes No				Wetlar	nd Hvdro	ology Presen	t?Yes 🖲	
Saturation Pre	esent?	Yes 🖲 No	Depart (ment					- 57		
(includes capi										
Describe Recor	ded Data (strea	n gauge, monito	r well, aerial photos, pre	vious inspe	ction) if av	ailable:				
Remarks:										
	n patches 1 in c	eep. water table	and saturation w/in 12 i	nches of su	irface.					