WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12	
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T32_03	
Investigator(s): JGK	l	Landform (hil	lside, terrac	e, hummocks etc.): Flat	
Local relief (concave, convex, none): hummocky		Slope:	%/ 4.4	° Elevation: 917	
Subregion : Interior Alaska Mountains	Lat.: 6	62.761568106	61	Long.:148.31329576 Datum: NAD83	
Soil Map Unit Name:				NWI classification: PEM1E	
	ignificantly aturally pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes ● No ○				pled Area	
Wetland Hydrology Present? Yes No		w	ithin a W	etland? Yes \odot No \bigcirc	
Remarks: Plot moved from original point to avoid wolf/wove	st all spe	cies in the	•	Dominance Test worksheet:	
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species	
1.	0			That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant	
2	0			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:		-f T-t-l Course		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:	OBL Species 67 x 1 = 67	
1. Betula nana	5		FAC	FACW Species $1 \times 2 = 2$	
2. Andromeda polifolia (IAM)	2		OBL	FAC Species $5 \times 3 = 15$	
3. Salix pulchra			FACW	FACU Species <u>0</u> x 4 = <u>0</u>	
4	0			UPL Species x 5 =	
5				Column Totals: <u>73</u> (A) <u>84</u> (B)
6 7	0			Prevalence Index = B/A = <u>1.151</u>	
8.				Hydrophytic Vegetation Indicators:	
9.	0			Dominance Test is > 50%	
10.	0			✓ Prevalence Index is ≤ 3.0	
Total Cover: Herb Stratum 50% of Total Cover:		of Total Cover	r: 1.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1. Carex aquatilis	40	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2. Carex vaginata	20	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must	
3. Trichophorum caespitosum	5		OBL	be present, unless disturbed or problematic.	
4.	0			Plot size (radius, or length x width)	
5				Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes <u>0</u>	
6	0			(Where applicable)	
7				% Bare Ground 15	
8				Total Cover of Bryophytes 5	
9					
10	0			Hydrophytic	
Total Cover: 50% of Total Cover:3	-	of Total Cover	:13	Vegetation Present? Yes No 	

Remarks: cargla collected traces of rholap salret vaculi empnig found on mounds betnan also primarily found on mounds

SOI	L

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features										
Depth (inches)	Color (mois	st) %	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
					116-					
								-		
¹ Type: C=Con	centration. D=I	Depletion. RM=R	Reduced Matrix ² Locatio	n: PL=Pore	e Lining. RC	C=Root Char	nnel. M=Matrix			
Hydric Soil Ir	ndicators:		Indicators for P	roblematic	: Hydric S	oils: ³				
	r Histel (A1)		🗌 Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	. ,		Alaska Alpine		-	_	Underlying Layer			
	Sulfide (A4)		Alaska Redox	•	,	\checkmark	Other (Explain in Remark	ය)		
	Surface (A12)									
Alaska Glev	()						nary indicator of wetland h	ydrology,		
Alaska Gle	, , ,		and an appropria	ite landscap	e position i	must be pre	esent			
	eyed Pores (A15)	١	⁴ Give details of o	color change	e in Remarl	ks				
Restrictive Laye	er (if present):									
Туре:							Hydric Soil Present	? Yes $ullet$ No $igloo$		
Depth (inch	ies):									
Remarks:										
Site has water a	at the surface	and combined wi	ith strong hydrophytic ve	getation inc	dicators ass	sumed hydri	ic soils floating peat mat i	n places		
HYDROLO	CA.									
Wetland Hydr	-	ors:					Secondary Indi	cators (two or more are required)		
-	tors (any one is							ned Leaves (B9)		
Surface W		Jumeiene,	Inundation V	Vicible on A	orial Image	vrv (R7)		Patterns (B10)		
	er Table (A2)		Sparsely Ve		-	, , ,		hizospheres along Living Roots (C3)		
Saturation	()		Marl Deposit	-	Cave Juna		Presence of Reduced Iron (C4)			
Water Mar	. ,		Hydrogen Si	. ,	(C1)					
	Deposits (B2)		Dry-Season					Stressed Plants (D1)		
	,		Other (Expla		. ,		Geomorphic Position (D2)			
	or Crust (B4)			In Kemai	'KS)			juitard (D3)		
								graphic Relief (D4)		
Iron Depo										
	oil Cracks (B6)					1	TAC-Heuuz	li Test (DS)		
Field Observa		Yes 🖲 No	O Donth (inch							
Surface Water			1 (es): ∠						
Water Table P		Yes 🔿 No	 Depth (inch 	es):		Wetlan	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre (includes capil		Yes 🔿 No	• Depth (inch	es):						
		m asuae monit	or well, aerial photos, pre	wique inspe	ction) if av	ailahlar				
Describe record	עבת המונה לאורים	III yauye, mome		vious inspe						
Demerica										
Remarks:										