WETLAND DETERMINATION DATA FORM - Alaska Region

\me!	t/Site: Susitna-Watana Hydroelectric Project		orough/City:	Watanusk	a-Susitna Borough Sampling Date: 01-Aug-13		
-vbbiics	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_09		
nvesti	gator(s): WAD, RWM	e, hummocks etc.):lakeshore					
_ocal r	relief (concave, convex, none): flat		Slope:	% / 1.0	elevation: 109		
Subreg	gion : Interior Alaska Mountains	Lat.: 6	63.221384286	9	Long.: -148.236486316 Datum: NAD83		
-	ap Unit Name:	_			NWI classification: PEM1F		
	matic/hydrologic conditions on the site typical for this t	ime of vear?	2 Yes	• No ()	(If no, explain in Remarks.)		
		-	/ disturbed?		lormal Circumstances" present? Yes No		
		naturally pro			eded, explain any answers in Remarks.)		
SUMN	MARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes • No)	_				
	Hydric Soil Present? Yes No	$\mathbf{)}$					
	Wetland Hydrology Present? Yes No C)	wi	thin a Wetland? Yes $ullet$ No $igloo$			
Rema	arks: Well developed wet sedge meadow shoreline, m		an it should b	e.			
/EGE	ETATION - Use scientific names of plants. L	ist all spe Absolute		olot. Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1.		0			That are OBL, FACW, or FAC: <u>4</u> (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	0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =		
1.	Salix pulchra	4	\checkmark	FACW	FACW Species 4 x 2 = 8		
2.	Salix reticulata	1	\checkmark	FAC	FAC Species <u>5</u> x 3 = <u>15</u>		
3.					FACU Species <u>0</u> x 4 = <u>0</u>		
4.		•			UPL Species x 5 =		
5.							
		0			Column Totals: <u>84</u> (A) <u>98</u> (B)		
6.							
6. 7.		0			Column Totals: <u>84</u> (A) <u>98</u> (B) Prevalence Index = B/A = <u>1.167</u>		
-		0			Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators:		
7. 8. 9.		0 0 0			Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
7. 8. 9.		0 0 0 0 0			Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators:		
7. 8. 9. 10.		0 0 0 0 0	of Total Cover:		Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
7. 8. 9. 10.	Total Cover	0 0 0 0 0	G of Total Cover:		Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 Morphological Adaptations ¹ (Provide supporting data in		
7. 8. 9. 10. <u>Her</u> 1.	Total Cover b Stratum50% of Total Cover:	0 0 0 0 <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u>	_		Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators:		
7. 8. 9. 10. Her 1. 2.	Total Cover <u>b Stratum</u> 50% of Total Cover: Carex aquatilis Comprum polyetro	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 30 \\ 4 \\ 4 \end{array} $		OBL	Prevalence Index = B/A =		
7. 8. 9. 10. Her 1. 2. 3.	Total Cover <u>b Stratum</u> 50% of Total Cover: Carex aquatilis Comarum palustre Equisetum anvense	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 45 \\ 30 \\ 4 \\ \end{array} $		OBL OBL	Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators:		
7. 8. 9. 10. <u>Her</u> 1. 2. 3. 4.	Total Cover b Stratum	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 2.0 \\ 45 \\ 30 \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		OBL OBL	Prevalence Index = B/A =		
7. 8. 9. 10. <u>Her</u> 1. 2. 3. 4. 5. 6.	Total Cover <u>b Stratum</u> 50% of Total Cover: Carex aquatilis Comarum palustre Equisetum arvense	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 2.5 \\ 0 \\ 45 \\ 30 \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		OBL OBL	Prevalence Index = B/A = <u>1.167</u> Hydrophytic Vegetation Indicators:		
7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7.	Total Cover b Stratum	$ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 5\\ 2.5\\ 2.5\\ 2.5\\ 0\\ 4\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		OBL OBL	Prevalence Index = B/A =		
7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover b Stratum50% of Total Cover: Carex aquatilis Comarum palustre Equisetum arvense	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 0 \\ 45 \\ 30 \\ 4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		OBL OBL	Prevalence Index = B/A =		
7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover <u>b Stratum</u> 50% of Total Cover: Carex aquatilis Comarum palustre Equisetum arvense	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 2.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		OBL OBL	Prevalence Index = B/A =		
7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover b Stratum 50% of Total Cover: Carex aquatilis	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 2.5 \\ 2.5 \\ 2.5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		OBL OBL	Prevalence Index = B/A =		
7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover <u>b Stratum</u> 50% of Total Cover: Carex aquatilis Comarum palustre Equisetum arvense	0 0 0 0 0 0 0 2.5 20% 45 30 4 0 0 0 0 0 0 0 0 0 0 79		OBL OBL FAC	Prevalence Index = B/A =		

SOIL

Profile Description: (Describe to the depth needed to doc Depth Matrix			ument the indicator or confirm the absence of indicators) Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-5		100					Fibric Organics		
5-15		100					Hemic Organics		
						-	-		
¹ Type: C=Con	centration. D=De	oletion. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil Ir	dicators:		Indicators for Pr	oblemati	c Hydric So	oils ³			
	Histel (A1)		Alaska Color Ch		4		Alaska Gleyed Without H	ie 5Y or Redder	
Histic Epip	. ,		Alaska Alpine s		-		Underlying Layer		
	Sulfide (A4)		Alaska Redox V		-		Other (Explain in Remark	s)	
	Surface (A12)								
Alaska Gle							nary indicator of wetland h	ydrology,	
Alaska Red			and an appropriat	e landscap	pe position r	nust be pre	esent		
	yed Pores (A15)		⁴ Give details of co	olor chang	e in Remark	S			
Restrictive Laye									
Type:	i (ii presenc).						Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inch	ec).						nyunc son Present		
Remarks:	cs).								
HYDROLO									
	ology Indicator							cators (two or more are required)	
Primary Indicat	ors (any one is su	fficient)						ned Leaves (B9)	
Surface W	. ,		Inundation V		-			atterns (B10)	
	r Table (A2)		Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,		Marl Deposits	. ,	(- .)			f Reduced Iron (C4)	
Water Mar			Hydrogen Su				Salt Depos		
	Deposits (B2)		Dry-Season V					Stressed Plants (D1) c Position (D2)	
· · ·	or Crust (B4)			n in Rema	rks)		Shallow Aq	· · /	
Iron Depo								raphic Relief (D4)	
·	oil Cracks (B6)						FAC-neutra		
Field Observa	. ,							1.000 (00)	
Surface Water		′es 🔿 No 🖲	Depth (inche	s):					
Water Table P		∕es ● No ○				Wotla	nd Hydrology Presen	t? Yes 🖲 No 🔿	
Saturation Pre			Depth (inche	s): 10		wella	na nyarology Presen		
(includes capil	Ŷ	′es ● No ○	Depth (inche	s): 5					
Describe Record	led Data (stream	gauge, monitor wel	l, aerial photos, prev	ious inspe/	ection) if ava	ailable:			
Remarks:									