WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13						
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T101_03						
Investigator(s): WAD, BAB Landform (hillside, terrace, hummocks etc.): pond and margin											
	relief (concave, convex, none): concave		Slope:		° Elevation: 844						
	gion : Copper River Basin	lat·	62.669617772		Long.: -147.475647925 Datum: NAD83						
	ap Unit Name:			■ Nr. ○	NWI classification: PEM1H						
	imatic/hydrologic conditions on the site typical for this ti	-		● No ○	(If no, explain in Remarks.)						
		•	y disturbed?		omai or cametanece procent.						
Are \	Vegetation . , Soil . , or Hydrology	naturally p	roblematic?	(If 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 C)	Is the Sampled Area								
	Wetland Hydrology Present? Yes ● No C		within a Wetland? Yes ● No ○								
Rem	arks:	<u>: </u>									
VFG	ETATION - Use scientific names of plants. Li	ict all ca	ocios in thou	nlot							
	21A11ON - OSE SCIENTING Harries Of plants. Li				Dominance Test worksheet:						
Tre	ee Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species						
1.		0	П		That are OBL, FACW, or FAC: (A)						
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)						
3.											
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.		0									
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 7.1 x 1 = 7.1						
	· · · · · · · · · · · · · · · · · · ·		✓	FACW	FACW Species 1.2 x 2 = 2.400						
1. 2.	Salix pulchra Salix fuscescens	1	. 🖳	FACW	FAC Species 0 x 3 = 0						
3.			. 📙	FACVV	FACU Species 0 x4 = 0						
4.					UPL Species 0 x 5 = 0						
5.											
6.					Column Totals: <u>8.3</u> (A) <u>9.5</u> (B)						
7.		0			Prevalence Index = B/A = <u>1.145</u>						
8.					Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
10.		0			✓ Prevalence Index is ≤3.0						
	Total Cover	:1.1		i	Morphological Adaptations ¹ (Provide supporting data in						
He	Total Cover rb Stratum 50% of Total Cover:			: 0.22	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
		0.55 20%		: <u>0.22</u> OBL	 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) 						
	rb Stratum 50% of Total Cover: Carex aquatilis	0.55 209	% of Total Cover:		Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must						
1.	rb Stratum 50% of Total Cover: Carex aquatilis	0.55 209	% of Total Cover:	OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)						
1. 2.	rb Stratum 50% of Total Cover: Carex aquatilis Comarum palustre	0.55 209 5 1 1	% of Total Cover:	OBL OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1. 2. 3.	Carex aquatilis Comarum palustre Eriophorum angustifolium	0.55 209 5 1 1 0.1	% of Total Cover:	OBL OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m						
1. 2. 3. 4. 5.	Carex aquatilis Comarum palustre Eriophorum angustifolium Equisetum hyemale	0.55 209 5 1 1 0.1 0.1	% of Total Cover:	OBL OBL FACW	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1. 2. 3. 4. 5.	Carex aquatilis Comarum palustre Eriophorum angustifolium Equisetum hyemale Carex pauciflora	0.55 209 5 1 1 0.1 0.1 0 0	% of Total Cover:	OBL OBL FACW	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes						
1. 2. 3. 4. 5. 6. 7.	Carex aquatilis Comarum palustre Eriophorum angustifolium Equisetum hyemale Carex pauciflora	0.55 20% 5 1 1 0.1 0.1 0 0 0	% of Total Cover:	OBL OBL FACW	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable)						
1. 2. 3. 4. 5. 6. 7. 8.	Carex aquatilis Comarum palustre Eriophorum angustifolium Equisetum hyemale Carex pauciflora	0.55 20% 5 1 1 0.1 0.1 0 0 0 0	% of Total Cover:	OBL OBL FACW	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground O						
1. 2. 3. 4. 5. 6. 7. 8. 9.	Carex aquatilis Comarum palustre Eriophorum angustifolium Equisetum hyemale Carex pauciflora	0.55 20% 5 1 1 0.1 0.1 0 0 0 0 0	% of Total Cover:	OBL OBL FACW	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic						
1. 2. 3. 4. 5. 6. 7. 8. 9.	Carex aquatilis Comarum palustre Eriophorum angustifolium Equisetum hyemale Carex pauciflora	0.55 20% 5 1 1 0.1 0.1 0 0 0 0 7.2	% of Total Cover:	OBL OBL OBL FACW OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes 1						

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SOIL Sampling Point: SW13_T101_03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

	tion: (Describe to the depth needed to do Matrix			ocument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
						.,,,,					
					-		-				
											
					-						
1 _{Type: C-Cor}	ocentration D-	Denletion I	DM-Deduced	I Matrix ² Location	o: DI –Pore	- Lining PC	-Poot Char	nnel M-Matrix			
		Берівцоп. і		Indicators for Pr				illici. M—Maulx			
Hydric Soil I				_		4	olis:		57. 5.11		
	Histosol or Histel (A1)			Alaska Color Ch			Ш	Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip			l I	Alaska Alpine s	re)						
	Sulfide (A4)		L	☐ Alaska Redox With 2.5Y Hue							
	Surface (A12)			³ One indicator of	hydrophyt	ic vegetatio	n. one prim	nary indicator of wetland h	vdrology.		
Alaska Gle				and an appropriat					, u.o.ogy,		
Alaska Red	, ,			4 Give details of co	olor change	in Remark	c				
	yed Pores (A15))		GIVE details of the	olor change	z in remark					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes 💿 No 🔾		
Depth (inch	nes):										
Remarks:											
assume hydric s	soil due to hydr	ophytic veg	etation and i	inundation.							
HYDROLO	GY										
Wetland Hydi		ors:						Secondary India	cators (two or more are required)		
_	tors (any one is								ned Leaves (B9)		
		,		✓ Inundation V	isible on A	erial Imager	v (B7)		atterns (B10)		
	✓ Surface Water (A1) High Water Table (A2)			✓ Sparsely Veg		-	, , ,	Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits		icave Sarrae	.c (b0)		f Reduced Iron (C4)		
	. ,			Hydrogen Su	` ,	(C1)		Salt Deposits (C5)			
				Dry-Season \					Stressed Plants (D1)		
Drift Deposits (B3)				Other (Explai					ic Position (D2)		
Algal Mat or Crust (B4)				Other (Explai	iii iii Keilia	113)			uitard (D3)		
☐ Iron Depo									raphic Relief (D4)		
— .	oil Cracks (B6)							✓ FAC-neutra			
Field Observa								TAC IICulu	1 (23)		
Surface Water		Yes	No O	Depth (inche	·s)· 36						
		Yes •		, ,	•		Watlan	d Usduelens Duccon	t? Yes • No O		
Water Table P				Depth (inche	s):		wetian	nd Hydrology Presen	t? Yes © No C		
Saturation Pre (includes capil		Yes 💿	No O	Depth (inche	s):						
		т дацае. г	nonitor well	aerial photos, prev	vious inspe	ction) if ava	ilable:				
Describe record	aca bata (strea	iii gaage, i	nomicol wen,	acriai priocos, pre-	rious irispe	cuon, n ava	mable.				
Remarks:											

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