WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13
Applic	cant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T107_05
	tigator(s): SLI, SCB		Landform (hills	side. terrac	e, hummocks etc.): Swale
	relief (concave, convex, none): flat		Slope:	% / 1.2	
	· · · · · · · · · · · · · · · · · · ·	l of :			
	gion : Interior Alaska Mountains	Lal	62.862111926	3	
	ap Unit Name:				NWI classification: PEM1F
	imatic/hydrologic conditions on the site typical for this t	-		● No ○	(If no, explain in Remarks.)
		-	tly disturbed?		ormal Circumstances" present? Yes No
Are \	Vegetation ☐ , Soil ☑ , or Hydrology ☐	naturally	problematic?	(If nee	ded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	$\overline{)}$			<u> </u>
	Hydric Soil Present? Yes No		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes No	_	wi	thin a W	etland? Yes 💿 No 🔾
Rem	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		water flowing, b	out no chan	nel morphology (bed and bank). southern aspect picgla
	bank is non-wetland. moose and caribou scat, ru				
\/FC	ETATION				
VEG	ETATION -Use scientific names of plants. L	ıst all sp	ecies in the	plot.	Dominance Test worksheet:
_		Absolute % Cove		Indicator Status	Number of Dominant Species
	ee Stratum Picea mariana	_ 		FACW	That are OBL, FACW, or FAC: 4 (A)
2.			_	TACW	Total Number of Dominant
3.		0	-		Species Across All Strata: 4 (B)
4.		- 0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			-		
0.	Total Cove				Prevalence Index worksheet:
Sai	pling/Shrub Stratum 50% of Total Cover:		– % of Total Cover:	0.2	Total % Cover of: Multiply by:
Ja	pinig/situb stratum 50% of fotal cover.	0.5 20			OBL Species <u>75.1</u> x 1 = <u>75.1</u>
	Betula nana	5	_	FAC	FAC Species 4 x 2 = 8
2.				FAC	FAC Species 12 x 3 = 36 FACU Species 0 x 4 = 0
	Salix pulchra	2			
1 4				FACW	
	Picea mariana	0.1		FACW	UPL Species 0 x 5 = 0
5.		0.1			
5. 6.		0.1			UPL Species $0 \times 5 = 0$ Column Totals: $91.1 \times 5 = 0$ (A) $119.1 \times 5 = 0$
5. 6. 7.		0.1			UPL Species 0 $x = 0$ Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307
5. 6. 7. 8.		0.1 0 0 0			UPL Species $0 \times 5 = 0$ Column Totals: $91.1 \times 5 = 0$ Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators:
5. 6. 7. 8. 9.		0.1 0 0 0 0			UPL Species 0 x 5 = 0 Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
5. 6. 7. 8.		0.1 0 0 0 0 0			UPL Species $0 \times 5 = 0$ Column Totals: $91.1 \times 5 = 0$ Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0
5. 6. 7. 8. 9.	Total Cover	0.1 0 0 0 0 0 0 0		FACW	UPL Species $0 \times 5 = 0$ Column Totals: $91.1 \times 5 = 0$ Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in
5. 6. 7. 8. 9. 10.	Total Coveres 50% of Total Cover:	0.1 0 0 0 0 0 0 0 13.1 6.55		FACW	UPL Species $0 \times 5 = 0$ Column Totals: $91.1 \times 5 = 0$ Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
5. 6. 7. 8. 9. 10. He	Total Covers 50% of Total Covers	0.1 0 0 0 0 0 0 0 13.1 6.55 20	ow of Total Cover	FACW 2.62 OBL	UPL Species 0 x 5 = 0 Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
5. 6. 7. 8. 9. 10. He 1. 2.	Total Cover brb Stratum 50% of Total Cover: Carex aquatilis Equisetum fluviatile	0.1 0 0 0 0 0 0 0 13.1 6.55 20 50	of Total Cover	FACW 2.62 OBL OBL	UPL Species $0 \times 5 = 0$ Column Totals: $91.1 \times 5 = 0$ Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
5. 6. 7. 8. 9. 10. He 1. 2.	Total Coverserb Stratum 50% of Total Covers	0.1 0 0 0 0 0 0 0 13.1 6.55 20 50 15	of Total Cover	FACW 2.62 OBL OBL OBL	UPL Species 0 x 5 = 0 Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in 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.
5. 6. 7. 8. 9. 10. He 1. 2. 3. 4.	Total Cover erb Stratum 50% of Total Cover: Carex aquatilis Equisetum fluviatile Comarum palustre Calamagrostis canadensis	0.1 0 0 0 0 0 0 0 13.1 6.55 20 50	of Total Cover	FACW 2.62 OBL OBL	UPL Species 0 x 5 = 0 Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in 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) 10m
5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5.	Total Cover erb Stratum 50% of Total Cover: Carex aquatilis Equisetum fluviatile Comarum palustre Calamagrostis canadensis Eriophorum angustifolium	0.1 0 0 0 0 0 0 13.1 6.55 20 15 10	ow of Total Cover	FACW 2.62 OBL OBL OBL FAC	UPL Species 0 x 5 = 0 Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes
5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6.	Total Cover 50% of Total Cover: Carex aquatilis Equisetum fluviatile Comarum palustre Calamagrostis canadensis Eriophorum angustifolium Carex loliacea	0.1 0 0 0 0 0 0 13.1 6.55 20 50 15 10 2 0.1	ow of Total Cover	FACW 2.62 OBL OBL FAC OBL	UPL Species 0 x 5 = 0 Column Totals: 91.1 (A) 119.1 (B) Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in 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) 10m % Cover of Wetland Bryophytes (Where applicable)
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US Army Corps of Engineers Alaska Version 2.0

SOIL

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

Matrix

Redox Features

Depth				cument the indicator or confirm the absence of indicators) Redox Features				_		
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks	
<u> </u>									-	
Type: C=Con	centration. D=	Depletion. F	RM=Reduc	ed Matrix ² Location				nnel. M=Matrix		
Hydric Soil Indicators:				Indicators for Pro		4	oils: ³			
Histosol or Histel (A1)				Alaska Color Ch		-		Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipedon (A2)			Alaska Alpine s	•	•		Underlying Layer			
Hydrogen S	. ,			Alaska Redox V	√ith 2.5Y I	Hue	V	Other (Explain in Remark	ks)	
	Surface (A12)			³ One indicator of	hydronhy	tic vegetatio	on one nrim	nary indicator of wetland h	nydrology	
Alaska Gley				and an appropriat					1741 010977	
☐ Alaska Red	. ,			4 Give details of co	olor chang	e in Remarl	ks			
	ed Pores (A15)								
estrictive Laye	r (if present):									
Type:	,							Hydric Soil Present	? Yes • No O	
Donth (inch										
Depth (inchesemarks: ssume hydric s		ophytic veg	etation and	d standing water						
emarks:		ophytic veg	etation an	d standing water						
emarks:	oil due to hydr	ophytic veg	etation an	d standing water						
emarks: ssume hydric s	oil due to hydr		etation an	d standing water				_Secondary Indi	icators (two or more are required)	
emarks: ssume hydric s YDROLOG Vetland Hydr	oil due to hydr	ors:	etation an	d standing water					icators (two or more are required) ined Leaves (B9)	
YDROLOG Vetland Hydr Vimary Indicat Surface W	GY ology Indicators (any one is later (A1)	ors:	letation an	d standing water	sible on A	verial Image	ery (B7)	Water Stai	ined Leaves (B9) Patterns (B10)	
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YDROLOG Yetland Hydr Yorimary Indicat Surface W High Wate Saturation	GY ology Indicat ors (any one is ater (A1) r Table (A2) (A3)	ors:	etation an	Inundation Vi	etated Cor s (B15)	ncave Surfa		Water Stai Drainage I Oxidized R Presence of	ined Leaves (B9) Patterns (B10) khizospheres along Living Roots (C3) of Reduced Iron (C4)	
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