WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 20-Jun-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T06_07
	igator(s): SLI, EKJ		Landform (hil	lside, terrac	ce, hummocks etc.): Lowland
Local	relief (concave, convex, none): none		Slope:	% / 0.9	9 ° Elevation: 440
Subre	gion : Interior Alaska Mountains	Lat.:	- 62.82561816	 24	Long.: -148.625425708 Datum: NAD83
	ap Unit Name:		02.0200.010		NWI classification: PEM1/SS1F
	matic/hydrologic conditions on the site typical for this ti	ime of ve	ar? Yes	● No ○	
			itly disturbed?		Normal Circumstances" present? Yes No No
			problematic?		eded, explain any answers in Remarks.)
		•			
SUM	MARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No		le	the Sam	npled Area
	Hydric Soil Present? Yes No			ithin a W	
	Wetland Hydrology Present? Yes No)	W	itiiiii a vv	etialiur 155 5 No 5
Rem	arks:				
VEG	ETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.	
		Absolut		Indicator	Dominance Test worksheet:
	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.		0	-		Total Number of Dominant
2.			-		Species Across All Strata: 4 (B)
3. 4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.			-		111at Ale OBE, 1 AOW, 01 1 AC. 100.070 (AB)
0.	Total Cover	- <u> </u>			Prevalence Index worksheet:
Sai	pling/Shrub Stratum 50% of Total Cover:		– % of Total Cover	: 0	Total % Cover of: Multiply by:
					OBL Species 35 x 1 = 35 FACW Species 0 x 2 = 0
	Betula nana	30		FAC	FACW Species 0 x 2 = 0 FAC Species 31 x 3 = 93
	Vaccinium uliginosum		-	FAC	FACU Species 0 x4 = 0
3. 4.		_			UPL Species 0 x 5 = 0
5.		0			
6.					Column Totals: <u>66</u> (A) <u>128</u> (B)
7.					Prevalence Index = B/A = 1.939
8.			-		Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
	Total Cover				Morphological Adaptations (Provide supporting data in
He	rb Stratum 50% of Total Cover:	15.5 20	0% of Total Cove	r: <u>6.2</u>	Remarks or on a separate sheet)
1.	Carex aquatilis	15		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
		10	_	OBL	¹ Indicators of hydric soil and wetland hydrology must
	Comarum palustre				
3.	Equisetum fluviatile	10		OBL	be present, unless disturbed or problematic.
3. 4.	Equisetum fluviatile	10		OBL	
3. 4. 5.	Equisetum fluviatile	10 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 20m 20m 20m 20m 20m 20m 20m 20m 20m 2
3. 4. 5. 6.	Equisetum fluviatile	10 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
3. 4. 5. 6. 7.	Equisetum fluviatile	0 0 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m (Where applicable) 40 40
3. 4. 5. 6. 7. 8.	Equisetum fluviatile	10 0 0 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
3. 4. 5. 6. 7. 8.	Equisetum fluviatile	10 0 0 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m (Where applicable) 10m (Where applicable) 10m (Total Cover of Bryophytes 10 (Mhere applicable) 10m (Mhere applicable)
3. 4. 5. 6. 7. 8.	Equisetum fluviatile	10 0 0 0 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
3. 4. 5. 6. 7. 8.	Equisetum fluviatile	10 0 0 0 0 0 0 0			be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 40 Total Cover of Bryophytes 10

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SOIL Sampling Point: SW12_T06_07

Depth	Mat	ГІХ	Re	ment the indicator or confirm the absence of indicators) Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
								_
				"				_
								_
								_
								_
								_
Type: C=Con	centration. D=Dep	oletion. RM=Re	duced Matrix ² Location	n: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:		Indicators for Pr	oblematio	Hydric S	oils: ³		
Histosol or	Histel (A1)		Alaska Color C	hange (TA4	1)4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipe	edon (A2)		Alaska Alpine s	swales (TA5	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)		Alaska Redox V	Nith 2.5Y F	lue	✓	Other (Explain in Rema	rks)
Thick Dark	Surface (A12)		_					
Alaska Gley	/ed (A13)		³ One indicator of and an appropria				nary indicator of wetland	hydrology,
Alaska Red	ox (A14)		ани ан арргорна	ie iaiiuscap	e position	must be pre	SEIIL	
Alaska Gley	ed Pores (A15)		⁴ Give details of c	olor change	e in Remarl	ks		
Restrictive Laye	r (if present):							
Type:	(Hydric Soil Presen	nt? Yes • No O
. / F							riyane son riesen	ic. 165 0 116 0
		hroughout site	. assume hydric soils do	ue to hydro	phytic vege	etation and	primary hydrology indica	ators.
emarks:		hroughout site	. assume hydric soils du	ue to hydro	phytic vege	etation and	primary hydrology indica	itors.
emarks: o soil pit due to	o standing water t		. assume hydric soils du	ue to hydro	phytic vege	etation and	primary hydrology indica	otors.
emarks: o soil pit due to	o standing water to standing water to standing water to standing water to stand w	s:	. assume hydric soils du	ue to hydro	phytic vege	etation and	_Secondary In	dicators (two or more are required)
YDROLOG Vetland Hydr	o standing water to GY ology Indicators cors (any one is su	s:					Secondary In	dicators (two or more are required)_ ained Leaves (B9)
YDROLOG Vetland Hydr Primary Indicat Surface Wi	GY ology Indicators cors (any one is suater (A1)	s:	☐ Inundation V	isible on A	erial Image	ery (B7)	_Secondary In	dicators (two or more are required) ained Leaves (B9) Patterns (B10)
YDROLOG Vetland Hydro Primary Indicat Surface Wa High Wate	GY ology Indicators cors (any one is su ater (A1) r Table (A2)	s:	☐ Inundation \	isible on A etated Cor	erial Image	ery (B7)	Secondary In Water St Drainage Oxidized	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
YDROLOG Vetland Hydr Primary Indicat Surface Wa High Wate Saturation	GY ology Indicators ors (any one is suater (A1) r Table (A2) (A3)	s:	☐ Inundation V	isible on A etated Cor	erial Image	ery (B7)	Secondary Inc Water St Drainage Oxidized Presence	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
YDROLOG Vetland Hydr Primary Indicat V Surface Wo High Wate Saturation Water Mar	GY ology Indicators ors (any one is su ater (A1) r Table (A2) (A3) ks (B1)	s:	☐ Inundation V☐ Sparsely Veg☐ Marl Deposit☐ Hydrogen Su	fisible on A letated Cor s (B15) Ilfide Odor	erial Image ncave Surfa (C1)	ery (B7)	Secondary Inc Water St Drainage Oxidized Presence	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) osits (C5)
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