WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/Ci	ity: Matanusk	ca-Susitna Borough Sampling Date: 22-Jun-12	
Applic	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T18_12	2
	igator(s): SLI, EKJ		Landform	(hillside, terrac	ce, hummocks etc.): Lowland	
	relief (concave, convex, none): flat		Slope:		7 ° Elevation: 748	
	gion : Southcentral Alaska	L at :	-			
		Lat	62.847278	52046		
	ap Unit Name:				NWI classification: PEM1E	
Are \		significant	tly disturbed problematic	? (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.	
	Hydrophytic Vegetation Present? Yes No			Is the Sam	upled Area	
	Hydric Soil Present? Yes No				-	
	Wetland Hydrology Present? Yes No)		within a W	retiand? res o no o	
	ETATION - Use scientific names of plants. L	Absolute	e Domina	nt Indicator	Dominance Test worksheet:	
1.	ee Stratum	% Cove	r Species	s? Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A))
			_	<u> </u>	Total Number of Dominant	
2. 3.			-		Species Across All Strata: 4 (B)	1
3. 4.		0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/	/R\
5 .		- 0	-		That Ale Obl., I AGW, OF AG	
J.	Total Cover		-		Prevalence Index worksheet:	
60	pling/Shrub Stratum 50% of Total Cover:		– % of Total Co	over: 0	Total % Cover of: Multiply by:	
Sa	philig/sili ub stratum 50% of Total Cover.				OBL Species 15 x 1 = 15	
	Betula nana	5	_		FACW Species 14 x 2 = 28	
2.	Empetrum nigrum	10	_		FACUS posicion a x 4 = 54	
3.	Salix myrtillifolia	2	-	FACW	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0	
4.	Andromeda polifolia	3	-	FACW		
5.	Vaccinium uliginosum		-	FAC	Column Totals: 47 (A) 97	(B)
6.		- 0	-		Prevalence Index = B/A =2.064_	
7.			-		Hadronkatia Varatatian Tudiantana	
9.		_	-		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%	
		0	-		✓ Prevalence Index is ≤3.0	
10.	Total Cover					
Не	rb Stratum 50% of Total Cover:			over: 4.2	Morphological Adaptations (Provide supporting data Remarks or on a separate sheet)	ın
1.	Carex aquatilis	15	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.		- 1		FACW	¹ Indicators of hydric soil and wetland hydrology must	
3.	Eriophorum russeolum	10	✓	FACW	be present, unless disturbed or problematic.	
4.					Plot size (radius or longth y width)	
5.			_		Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes	
		0			(Where applicable)	
			- 🗀		% Bare Ground	
0		0	- 📙		Total Cover of Bryophytes98	
0.		0	- 📙			
9.		0			Hydrophytic	
9.			_	over: 5.2	Vegetation Present? Yes No	

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T18_12

1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 1 Hydric Soil Indicators:	Depth	Matrix		Re	dox Feature				
## Henic Organics Type: C=Concentration. D=Depletion. RM=Reduced Matrix. **2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Todicators:		moist)		Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks
**Type: C=Concentration. D=Depletion. RM=Reduced Matrix **Location: PL=Pore Lining, RC=Root Channel. M=Matrix **Hydric Soil Indicators:									
Hydric Soil Indicators: Histosol or Histel (A1) Histosol or Histel (A1) Histosol or Histel (A1) Histosol or Histel (A2) Histosol or Histel (A2) Hydrogn Suffice (A4) Hydrogn Suffice (A3) Alaska Alpine swates (TA5) Alaska Gleyed (A12) Alaska Gleyed (A13) Alaska Gleyed (A14) Alaska Gleyed (A15) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: achie Hydrology Indicators Restrictive Layer (if present): Depth (inches): 8 Remarks: Hydric Soil Present? Yes No Presence of Reduced Inon (C4) Sparsely Vegetated Concave Surface (88) Hydric Soil Present? Water Table (A2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide C2) Hydrogen Sulfide C2) Hydrogen Sulfide C3 Hydric Soil Present? Water Table (A2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide C2) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide	2-8							Hemic Organics	
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Histic Epipedon (A2)	_				4	1	oiis:	l	57. 5.11
Hydrogen Sulfide (A4)									ue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: active layer (frozen) Depth (inches): 8 Remarks: Hydric Soil Present? Yes • No	= '' '				,	0		, , ,	rs)
Alaska Gleyed (A13) Alaska Gleyed (A14) 4 Give details of color change in Remarks 4 Give details of c	` • • • • • • • • • • • • • • • • •			☐ Alaska Redox	With 2.5Y Hu	e		Other (Explain in Remain	<i>3)</i>
Alaska Redox (A14) 4 Give details of color change in Remarks	_ `	.12)		³ One indicator o	f hydrophytic	vegetation	n, one prin	nary indicator of wetland h	ydrology,
Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: active layer (frozen) Depth (inches): 8 Remarks: Hydric Soil Present? Yes ● No ○ Present? Yes ● No ○ Remarks: Hydric Soil Present? Yes ● No ○ Remarks: Hydric Soil Present? Yes ● No ○ Present? Yes ● No ○ Remarks: Hydric Soil Present? Yes ● No ○ Remarks: Hydric Soil Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○									
Restrictive Layer (if present): Type: active layer (frozen) Depth (inches): 8 Remarks: Hydric Soil Present? Yes No No Primary Indicators (two or more are required) Mater Stained Leaves (B9) Surface Water (A1) Surface Water (A1) Saturation (A3) Mari Deposits (B15) Sediment Deposits (B2) Dry-Season Water Table (C2) Drift Deposits (B3) Algal Mat or Crust (B4) Drift Deposits (B5) Surface Water (B4) Describe Reduced (B4) Water Mater (B4) Deposits (B5) Dry-Season Water Table (C2) Dry-Season Water Table (A15\		4 Give details of	color change i	in Remarks	S		
Type: active layer (frozen) Depth (inches): 8 Remarks: Hydric Soil Present? Yes No	·								
Pige of the posits (B2)	_	-						Hudvie Ceil Drocent	Yes (A) No (
HYDROLOGY Wetland Hydrology Indicators:	, ,	ozen)						nyuric Son Present	r res 😌 No 🔾
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drift Deposits (B3) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Water Present? Yes No Depth (inches): Suturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Water Saturation (A2)	Remarks:						1		
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Water Marks (B1)	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any o	ne is sufficier	ıt)			_		Water Stai Drainage F	ned Leaves (B9) Patterns (B10)
Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): 2 Saturation Present? Yes ○ No ○ Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Stunted or Stressed Plants (D2) □ Stunted Plants (D2) □ Stunted Plants (D3) □	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A	ne is sufficier	nt)	Sparsely Ve	getated Conca	_		☐ Water Stai☐ Drainage F☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ PFAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ○ No ○ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): 2 Saturation Present? (includes capillary fringe) Yes ○ No ○ Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3)	ne is sufficier	nt)	Sparsely Ve	getated Conca ts (B15)	ave Surfac		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): 2 Saturation Present? Yes No Depth (inches): 0 Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	ne is sufficier 2) 32)	nt)	Sparsely Ve	getated Conca ts (B15) ulfide Odor (C Water Table (ave Surfac C1) (C2)		Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorph ☑ Shallow Ac	ned Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) If Reduced Iron (C4) Patterns (C5) Stressed Plants (D1) Proposition (D2) Stressed (D3)
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(includes capillary fringe) Tes Vivo Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the surface Water (A1) High Water Table (Acceptable of the surface Water (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Compared to the surface Water Present?	ne is sufficier 2) 32) 4) Yes	O No ●	Sparsely Ve	getated Conca ts (B15) ulfide Odor (C Water Table (ain in Remarks	ave Surfac C1) (C2)	e (B8)	Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) jraphic Relief (D4) il Test (D5)
Remarks:	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the control of the c	ne is sufficier 2) 32) 4) Yes Yes	No • No O	Sparsely Ve	getated Conca ts (B15) ulfide Odor (C Water Table (ain in Remarks	ave Surfac C1) (C2)	e (B8)	Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) jraphic Relief (D4) il Test (D5)
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	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	re is sufficient 2) 32) 4) Yes Yes Yes	○ No	Sparsely Ver Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch	getated Conca ts (B15) ulfide Odor (C Water Table (ain in Remarks es): es):	ave Surfac C1) (C2) s)	Wetlar	Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) jraphic Relief (D4) il Test (D5)
wetland drains to lake to the west, unrestricted outlet.	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the primary Indicators (and the primary Indicators (a	re is sufficient 2) 32) 4) Yes Yes Yes	○ No	Sparsely Ver Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch	getated Conca ts (B15) ulfide Odor (C Water Table (ain in Remarks es): es):	ave Surfac C1) (C2) s)	Wetlar	Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) jraphic Relief (D4) il Test (D5)
	HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the primary Indicators (and the primary Indicators (a	re is sufficient 2) 32) 4) Yes Yes Yes	○ No	Sparsely Ver Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch	getated Conca ts (B15) ulfide Odor (C Water Table (ain in Remarks es): es):	ave Surfac C1) (C2) s)	Wetlar	Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) jraphic Relief (D4) il Test (D5)
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