## WETLAND DETERMINATION DATA FORM - Alaska Region

<sup>o</sup> rojec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T141_09
	gator(s): BAB		Landform (hill	side, terrac	e, hummocks etc.): Hillside
	relief (concave, convex, none): hummocky		Slope:		° Elevation: 103
	gion : Interior Alaska Mountains	l at ·	 63.221018230		Long.: -148.257987834 Datum: NAD83
		Lat	03.22 10 10230	) <del>4</del>	
	ap Unit Name:		- \	<u> </u>	NWI classification: PSS1B
Are \	/egetation □ , Soil □ , or Hydrology □  MARY OF FINDINGS - Attach site map sho	significantly naturally pr wing sam	disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No
	Hydrophytic Vegetation Present? Yes   No   No   No   No   No  No  No  No  N		Is	the Sam	pled Area
	Hydric Soil Present? Yes No			ithin a W	
	Wetland Hydrology Present? Yes No Carks: wet graminoid meadows interspersed in the wet		VVI	itiiiii a vv	etialia: 100 llo
	ETATION - Use scientific names of plants. L	ist all spe Absolute % Cover	cies in the  Dominant Species?	•	Dominance Test worksheet:  Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:6(A)
2.			Π		Total Number of Dominant Species Across All Strata: 6 (B)
3.			Ē		
4.		0	$\overline{\Box}$		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:
Sar	oling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	001.0
	Salix pulchra			FACW	
2.		_			
3.		_			
4.					
5.		_			Column Totals: <u>109</u> (A) <u>214</u> (B)
6.					Prevalence Index = B/A = 1.963
7.		0			
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
10.	Tatal Cover				
He	<b>Total Cover</b> b Stratum 50% of Total Cover:		of Total Cover	:11	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	_25	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Calamagrostis canadensis	5	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense	2		FAC	be present, unless disturbed or problematic.
4.	Comarum palustre	. 3		OBL	Plot size (radius, or length x width) 10m
5.	Rhodiola integrifolia		✓	FAC	Plot size (radius, or length x width)
6.	Polemonium pulcherrimum	2		UPL	(Where applicable)
7.	Stellaria longifolia			FAC	% Bare Ground
8.	Viola palustris (IAM)	5	<b>_</b>	FAC	Total Cover of Bryophytes
9.	Rubus chamaemorus	5	<b>✓</b>	FACW	
٥.	Datasitas frieidos	1		FACW	Hydrophytic
10.	Petasites frigidus				
	Total Cover:		of Total Cover:	10.8	Vegetation Present? Yes  No  No

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SOIL Sampling Point: SW13\_T141\_09

Color (moist)  0-5  5-17  1 Type: C=Concentration. D=Deplete   Hydric Soil Indicators:  ✓ Histosol or Histel (A1)  Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Thick Dark Surface (A12)  Alaska Gleyed (A13)  Alaska Redox (A14)  Alaska Gleyed Pores (A15)  Restrictive Layer (if present):  Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (any one is sufficient of the color of t	pletion. RM=Reduced	I Matrix <sup>2</sup> Location: PL=Po  Indicators for Problema  Alaska Color Change (T  Alaska Redox With 2.5y  3 One indicator of hydroph and an appropriate landsc  4 Give details of color char	ore Lining. RC=Roo  tic Hydric Soils:  A4  A5)  / Hue  hydric vegetation, one ape position must be	Alaska Gleyed W Underlying Laye Other (Explain in	angular cobbles at 12 inches  Without Hue 5Y or Redder er n Remarks)  wetland hydrology,
Type: C=Concentration. D=Deplet  Hydric Soil Indicators:   Histosol or Histel (A1)  Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Thick Dark Surface (A12)  Alaska Gleyed (A13)  Alaska Gleyed Pores (A15)  Lestrictive Layer (if present):  Type: Depth (inches):  Lemarks:  HyDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one is sufficient of the sufficient	pletion. RM=Reduced	Indicators for Problema Alaska Color Change (T Alaska Alpine swales (T Alaska Redox With 2.5Y One indicator of hydroph and an appropriate landsc	tic Hydric Soils: <sup>3</sup> (A4) (A5) (A5) (A6) (A7) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	Sapric Organics  Sapric Organics  Ot Channel. M=Matrix  Alaska Gleyed W Underlying Laye Underlying Laye Other (Explain in the primary indicator of white present)	Vithout Hue 5Y or Redder er n Remarks) wetland hydrology,
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rype: Depth (inches):  emarks:  YDROLOGY  Vetland Hydrology Indicators: Primary Indicators (any one is suffi Surface Water (A1)  High Water Table (A2)  Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		<sup>4</sup> Give details of color char	nge in Remarks	Hydric Soil P	Present? Yes ● No ○
Type: Depth (inches):  emarks:  YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one is suffi Surface Water (A1)  High Water Table (A2)  Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)				Hydric Soil P	Present? Yes   No
Pepth (inches):  Pemarks:  YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (any one is suffing Surface Water (A1)  ✓ High Water Table (A2)  ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)				Hydric Soil P	Present? Yes ● No ○
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✓ High Water Table (A2) ✓ Saturation (A3)      Water Marks (B1)     Sediment Deposits (B2)     Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)	ifficient)				/ater Stained Leaves (B9)
✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)		Inundation Visible on		<i>'</i>	rainage Patterns (B10)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Sparsely Vegetated C	oncave Surface (B8		xidized Rhizospheres along Living Roots (C3
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Marl Deposits (B15)			resence of Reduced Iron (C4)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Hydrogen Sulfide Odd			alt Deposits (C5)
Algal Mat or Crust (B4)  Iron Deposits (B5)		Dry-Season Water Ta		_	tunted or Stressed Plants (D1)
Iron Deposits (B5)		Other (Explain in Rem	narks)	=	eomorphic Position (D2)
_ ' ' '					hallow Aquitard (D3)
				_	licrotopographic Relief (D4)
				<b>✓</b> FA	AC-neutral Test (D5)
ield Observations:	res ● No ○				
		Depth (inches): 5			
Water Table Present? Ye	∕es   ● No   ○	Depth (inches): 5	W	etland Hydrology	Present? Yes ● No ○
Saturation Present? (includes capillary fringe)		Depth (inches): 0			
escribe Recorded Data (stream ga	′es  ● No ○	aerial photos, previous ins	pection) if available	e:	
lemarks:					
cattered patches of open water, 5i					

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