## WETLAND DETERMINATION DATA FORM - Alaska Region

-	et/Site: Susitna-Watana Hydroelectric Project		Boro	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Jul-13
	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T122_03
	igator(s): SLI, SCB		Laı			e, hummocks etc.): Terrace
ocal	relief (concave, convex, none): hummocky		SI	ope: 2.0	_% / <u>1.1</u>	120
Subre	gion : Interior Alaska Mountains	La	t.: 62.	857427597	•	Long.: -148.492508173 Datum: WGS84
oil Ma	ap Unit Name:					NWI classification: Upland
Are \ Are \	imatic/hydrologic conditions on the site typical for Vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology  MARY OF FINDINGS - Attach site map	signific natural	antly di ly probl	sturbed? lematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
Ren	Hydric Soil Present? Yes	No ○ No ● No ○			the Sam thin a W	pled Area etland? Yes ○ No ®
ΈGI	ETATION -Use scientific names of plan					Dominance Test worksheet:
Tro	ee Stratum	Absol % Co		Dominant Species?	Indicator Status	Number of Dominant Species
	Picea glauca		3	<b>V</b>	FACU	That are OBL, FACW, or FAC: 7 (A)
2.			0			Total Number of Dominant Species Across All Strata: 8 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 87.5% (A/B)
5.			0			Prevalence Index worksheet:
	Total	Cover:	3			Total % Cover of: Multiply by:
Sap	pling/Shrub Stratum 50% of Total Cover	:1.5	20% of	Total Cover:	0.6	OBL Species 1 x1 = 1
1	Betula glandulosa		60	<b>✓</b>	FAC	FACW Species 42 x 2 = 84
2.			40	<b>✓</b>	FACW	FAC Species 127 x 3 = 381
3.	Vaccinium uliginosum		40	<b>✓</b>	FAC	FACU Species <u>3</u> x 4 = <u>12</u>
4.	Vaccinium vitis-idaea		10		FAC	UPL Species 0 x 5 = 0
5.	Ledum groenlandicum		10		FAC	Column Totals: <u>173</u> (A) <u>478</u> (B)
6.	Empetrum nigrum		5		FAC	
7.	Spiraea stevenii		0.1		FACU	Prevalence Index = B/A =2.763
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
Hei	<b>Total</b> virb <b>Stratum</b> 50% of Total Cove	Cover: <u>16</u> r: <u>82.55</u>			33.02	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	Rubus chamaemorus		2	<b>V</b>	FACW	Problematic Hydrophytic Vegetation (Explain)
	Cornus suecica		1	<b>✓</b>	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
-	Carex bigelowii Carex adelostoma	_	1	<u>~</u>	FAC OBL	be present, unless disturbed of problematic.
	Calex adelosiona		0		ODL	Plot size (radius, or length x width) <u>10m</u>
			0	$\overline{\Box}$		% Cover of Wetland Bryophytes (Where applicable)
Ο.			0			% Bare Ground
			0			Total Cover of Bryophytes 80
7.			0			
7. 8.						
7. 8. 9.			0			Hydrophytic
7. 8. 9.			0			Hydrophytic Vegetation Present? Yes  No  No

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SOIL Sampling Point: SW13\_T122\_03

Depth	Matrix		ment the indicator or c	dox Feature	es			
: .	(moist)	%	Color (moist)	%	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks
0-6		100%					Hemic Organics	_
6-7		100%					Loam	high organic content
7-12 7.5YI	4/4	100%					Loamy Sand	with subangular f-c gravels
Type: C=Concentratio	D=Depletio	n. RM=Reduc	ed Matrix <sup>2</sup> Location	on: PL=Pore L	 Lining. RC	=Root Cha	nnel. M=Matrix	-
Hydric Soil Indicators	:		Indicators for P	roblematic H	Hydric So	oils:		
Histosol or Histel (A	.)		Alaska Color (	Change (TA4)	1		Alaska Gleyed Without F	lue 5Y or Redder
Histic Epipedon (A2	•		Alaska Alpine	swales (TA5)			Underlying Layer	
Hydrogen Sulfide (A	4)		Alaska Redox	With 2.5Y Hue	e		Other (Explain in Remar	ks)
☐ Thick Dark Surface	A12)		2					
Alaska Gleyed (A13)			<ul> <li>One indicator of and an appropria</li> </ul>				nary indicator of wetland   esent	hydrology,
Alaska Redox (A14)			4 Give details of	·	•	•		
☐ Alaska Gleyed Pores	(A15)		· Give details of	Loior Change i	iii Keiliaik	5		
Restrictive Layer (if pres	nt):							0 0
Type: frozen Depth (inches): 12							Hydric Soil Present	:? Yes ○ No •
Remarks: No hydric soil indicators.								
No hydric soil indicators.								
No hydric soil indicators.  NO HYDROLOGY  Wetland Hydrology In								icators (two or more are required)
IYDROLOGY Wetland Hydrology In		nt)					Water Sta	ined Leaves (B9)
IYDROLOGY Wetland Hydrology In Primary Indicators (any Surface Water (A1)	one is sufficie	nt)		Visible on Aeri			Water Sta	ined Leaves (B9) Patterns (B10)
IYDROLOGY Wetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (	one is sufficie	nt)	Sparsely Ve	getated Conca			Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
IYDROLOGY Wetland Hydrology Ir Primary Indicators (any Surface Water (A1) High Water Table ( Saturation (A3)	one is sufficie	nt)	Sparsely Ve	getated Conca ts (B15)	ave Surfac		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
No hydric soil indicators.  IYDROLOGY  Wetland Hydrology In  Primary Indicators (any  Surface Water (A1)  High Water Table (  Saturation (A3)  Water Marks (B1)	one is sufficie	nt)	Sparsely Ve Marl Deposi Hydrogen S	getated Conca ts (B15) ulfide Odor (C	ave Surfac		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
No hydric soil indicators.  IYDROLOGY  Wetland Hydrology In  Primary Indicators (any  Surface Water (A1)  High Water Table (  Saturation (A3)  Water Marks (B1)  Sediment Deposits	one is sufficie	nt)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Conca ts (B15) ulfide Odor (C Water Table (	ave Surfac C1) (C2)		Water Sta Drainage Oxidized F Presence Salt Depo Stunted o	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
No hydric soil indicators.  IYDROLOGY  Wetland Hydrology In  Primary Indicators (any  Surface Water (A1)  High Water Table (  Saturation (A3)  Water Marks (B1)	one is sufficie (32) (B2)	nt)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Conca ts (B15) ulfide Odor (C	ave Surfac C1) (C2)		Water Sta Drainage Oxidized F Presence Salt Depo Stunted o	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2)
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IYDROLOGY  Wetland Hydrology In  Primary Indicators (any  Surface Water (A1)  High Water Table (  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (  Iron Deposits (B5)	ne is sufficients)  B2)  B4)  (B6)		Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Conca ts (B15) ulfide Odor (C Water Table (	ave Surfac C1) (C2)		Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph  Shallow A Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
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