WETLAND DETERMINATION DATA FORM - Alaska Region

TOJCO	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date:11-Jul-13
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T139_13
nvesti	gator(s): WAD, BAB		_ Landform (hill	side, terrac	e, hummocks etc.): shallow slope
_ocal r	elief (concave, convex, none): flat		_ Slope: 10.5	% / 6.0	Control of the second s
Subreg	ion : Southcentral Alaska	Lat.:	62.815254807	,	Long.: -149.629074216 Datum: WGS84
Soil Ma	p Unit Name:				NWI classification: PSS1B
Are clir	natic/hydrologic conditions on the site typical for thi	is time of vea	ar? Yes	No ○	(If no, explain in Remarks.)
	egetation . , Soil . , or Hydrology .		tly disturbed?		lormal Circumstances" present? Yes ● No ○
	egetation 🗹 , Soil 🗌 , or Hydrology 🗌		problematic?		eded, explain any answers in Remarks.)
		_			
SUMI	MARY OF FINDINGS - Attach site map sl		mpling point	locations	s, transects, important features, etc.
	,	0	le	tha Sam	pled Area
	Hydric Soil Present? Yes No	\circ			
	Wetland Hydrology Present? Yes ● No	\circ	WI	thin a W	etiand? Tes C No C
Rem	arks: side slope between the black spruce wetland	d above and	the peatland be	low, no hvo	drophytic vegetation.
	side stope between the black sprace wetane	a above and	are peatiaria be		arophysic vegetation,
VEGE	TATION -Use scientific names of plants	. List all sp	ecies in the	plot.	
		Absolut	e Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.	Picea glauca	25	_	FACU	Total Number of Dominant
	Betula papyrifera var. kenaica	15	_	UPL	Species Across All Strata: 4 (B)
3.		0	_		Percent of dominant Species
4.		0	_		That Are OBL, FACW, or FAC: 50.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Co				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	2020	% of Total Cover:	8	OBL Species x 1 =0
1.	Alnus viridis ssp. sinuata	80	✓	FAC	FACW Species <u>5</u> x 2 = <u>10</u>
2.	Rubus pubescens	5		FACW	FAC Species <u>168</u> x 3 = <u>504</u>
3.		0	_ 📙		FACU Species 37 x 4 = 148
4.			-		UPL Species <u>15</u> x 5 = <u>75</u>
5.			_		Column Totals: <u>225</u> (A) <u>737</u> (B)
6.		_	-		Prevalence Index = B/A =3.276_
7.			-		
8.		0	-		Hydrophytic Vegetation Indicators:
9.			-		Dominance Test is > 50%
10.	Total Co		_		Prevalence Index is ≤3.0
Her	b Stratum 50% of Total Cover:		 0% of Total Cover	: 17	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Athyrium filix-femina	55	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Cornus suecica			FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Gymnocarpium dryopteris	10		FACU	be present, unless disturbed or problematic.
4.	Equisetum arvense			FAC	District (and the second secon
5.	Equisetum sylvaticum			FAC	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6.	Veratrum viride	3		FAC	(Where applicable)
7.	Spinulum annotinum	2	_	FACU	% Bare Ground
8.	Calamagrostis canadensis	0.1		FAC	Total Cover of Bryophytes 0
9.			-		
10.		0	_		Hydrophytic
	Total Co				Vegetation Present? Yes ● No ○
	50% of Total Cover:				

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SOIL Sampling Point: SW13_T139_13

Depth (inches) Co	lor (moist)	<u>%</u>	Color (moist)	<u>%</u> 1	Type ¹ Loc	2 Text	ure	Rema	arks
0-3		100				Hemic Organi	ics	-	
3-11		100				Sapric Organi	ics		
11-16		100				Coarse Sand		weathered parent mate	erial
Type: C=Concentrat	ion D-Depletion		1 Matrix 2 Location	nı Di – Doro Li	ning PC-Poot (Channel M-Matr	iv		
			Indicators for Pi			manner. M-Mau	IX		
ydric Soil Indicato Histosol or Histel			Alaska Color C	4	yuric 30iis.	☐ Alaska Gleve	ed Without Hi	ue 5Y or Redder	
Histic Epipedon (A	` '		Alaska Alpine s			Underlying L		ac 31 of Redder	
Hydrogen Sulfide	,		Alaska Redox \			Other (Expla	ain in Remark	s)	
Thick Dark Surfac	e (A12)		30	£			-£H l		
Alaska Gleyed (A1			³ One indicator of and an appropria				or wettand n	yarology,	
☐ Alaska Redox (A1	•		⁴ Give details of c	color change in	Remarks				
☐ Alaska Gleyed Por									
estrictive Layer (if pro	:sent):					Undria Ca	:I Duccout	? Yes ● N	o O
Type:						Hyaric So	il Present?	? Yes ⊛ N	0 🔾
Depth (inches):									
, , ,									
Depth (inches): emarks:									
emarks: YDROLOGY									
YDROLOGY Vetland Hydrology							7	cators (two or more a	are required)
YDROLOGY (etland Hydrology	y one is sufficien	t)	Toundation	fizible on April	J. Innecons (D7)	Se	Water Stair	ned Leaves (B9)	are required)
YDROLOGY Yetland Hydrology rimary Indicators (ar	y one is sufficien 1)	t).			il Imagery (B7)		Water Stair Drainage P	ned Leaves (B9) atterns (B10)	
YDROLOGY /etland Hydrology rimary Indicators (ar Surface Water (A	y one is sufficien 1)	t)	Sparsely Veg	getated Concav	Il Imagery (B7) ve Surface (B8)		Water Stair Drainage P Oxidized RI	ned Leaves (B9)	
YDROLOGY /etland Hydrology rimary Indicators (ar Surface Water (A	y one is sufficien 1) (A2)	t)	Sparsely Veg Marl Deposit	getated Concav ts (B15)	e Surface (B8)	Se	Water Stair Drainage P Oxidized RI	ned Leaves (B9) atterns (B10) hizospheres along Liv f Reduced Iron (C4)	
YDROLOGY [etland Hydrology rimary Indicators (ar Surface Water (A High Water Table Saturation (A3)	y one is sufficien 1) (A2)	t)	Sparsely Veg Marl Deposit Hydrogen Su	getated Concav	ve Surface (B8)		Water Stair Drainage P Oxidized RI Presence o Salt Deposi	ned Leaves (B9) atterns (B10) hizospheres along Liv f Reduced Iron (C4)	ving Roots (C
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