WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 02-Jul-13
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T139_02
	gator(s): WAD. BAB	ı	Landform (hill	side, terrac	ce, hummocks etc.): Hillside
Local r	elief (concave, convex, none): flat		Slope: 14.0	% / 8.0	° Elevation: 476
	ion : Southcentral Alaska		· 62.823655486		Long.: -149.595953703 Datum: WGS84
			02.023033400	,	
	p Unit Name:		. V	No ○	NWI classification: Upland
Are V	egetation , Soil , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (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 • No • No • Yes No • No		Is	the Sam	pled Area
			wi	thin a W	/etland? Yes ○ No ●
	Wetland Hydrology Present? Yes O No 🗨	y 			
	arks: OPEN MIXED FOREST ON HILLSIDE photo time13,27. ETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.	
	·	Abaalata	D !	Td:t	Dominance Test worksheet:
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	Betula papyrifera var. kenaica	20		UPL	That are OBL, FACW, or FAC: 2 (A)
2.	Picea glauca	15	✓	FACU	Total Number of Dominant Species Across All Strata: 5 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 40.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	35			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	<u>17.5</u> 20%	of Total Cover	7	OBL Species 0 x 1 = 0
1.	Alnus viridis ssp. sinuata	15	✓	FAC	FACW Species 0 x 2 = 0
	Cnirona atauanii			FACU	FAC Species 72 x 3 = 216
3.	Vaccinium alaskaense			FAC	FACU Species 106 x 4 = 424
4.	Sorbus scopulina			FACU	UPL Species 20 x 5 = 100
5.		_			Column Totals: <u>198</u> (A) <u>740</u> (B)
6.		_			
7.		0			Prevalence Index = B/A = 3.737
8.		0			Hydrophytic Vegetation Indicators:
9.		0			☐ Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Her	Total Cover b Stratum 50% of Total Cover:		of Total Cover	: 5.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Dryopteris expansa	75	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Cornus suecica	-10	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Spinulum annotinum	10		FACU	be present, unless disturbed or problematic.
4.	Rubus arcticus			FAC	Plot size (radius, or length x width) 10m
5.	Calamagrostis canadensis			FAC	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 0
6.	Equisetum sylvaticum			FAC	(Where applicable)
					% Bare Ground25
					Total Cover of Bryophytes
10.					Hydrophytic
	Total Cover 50% of Total Cover: (of Total Course	27.4	Vegetation Present? Yes ○ No ●
1	50% OT LOTAL COVER:	ox 5 /U%	or roral Cover	114	,

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SOIL Sampling Point: SW13_T139_02

(inches)	Color (m	oict)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	Color (III	OISL)	100	Color (Illoist)		Туре	LUC	Fibric Organics	- No.
2-5			100					Hemic Organics	_
5-9	7.5YR	2.5/2	100					Loamy Sand	with lots of organics
									with lots of organics
9-10	10YR	3/3						Silt Loam	
10-16	7.5YR	3/4						Silt Loam	
									_
									_
									_
Type: C=Con	centration. D	=Depletior	ı. RM=Reduced	d Matrix ² Locatio	n: PL=Pore	Lining. RC=	=Root Cha	nnel. M=Matrix	
lydric Soil In	ndicators:			Indicators for P	roblematic I	Hydric Soi	ils: ³		
Histosol or	Histel (A1)		I	Alaska Color C	hange (TA4)	1		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine s	swales (TA5)			Underlying Layer	
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y Hu	е		Other (Explain in Rema	rks)
Thick Dark	Surface (A1	2)		3 One indicator of	f budranbutia	vocatation		nary indicator of wetland	hudrala au
Alaska Gley				and an appropria	ite landscape	position m	ust be prin	esent	nyurology,
☐ Alaska Red	` ,			⁴ Give details of c	color change i	in Remarks	:		
	yed Pores (A	15)			color change i	iii remano	,		
estrictive Laye	r (if present)	:							
Type:								Hydric Soil Presen	t? Yes ○ No •
	٠٠)،								
Depth (inchemarks:		c soil indica	tors.						
		c soil indica	itors.						
Depth (inchemarks:	yer, no hydri	c soil indica	itors.						
Depth (inchemarks:	gyer, no hydri		itors.					_Secondary Inc	licators (two or more are required)
Depth (inchemarks: o restrictive lay	ger, no hydri GY ology Indic	ators:							dicators (two or more are required) nained Leaves (B9)
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