WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Jun-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T06_09
	ator(s): SLI, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Terrace
_	elief (concave, convex, none): flat		Slope:	% / 5.8	
	ion : Interior Alaska Mountains	l at ·	- · <u></u> 62.823778162		Long.: -148.623835709 Datum: NAD83
		Lutii	02.023770102	-	
	o Unit Name:			No ○	NWI classification: Upland
Are Ve	egetation , Soil , or Hydrology r	significani naturally p ving sai	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ oded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No 🗨		le	the Sam	pled Area
	Hydric Soil Present? Yes O No 💿			thin a W	-
	Wetland Hydrology Present? Yes No • rks: picgla woodland, has burned at some point in the		ļ.		Citaria i
	TATION - Use scientific names of plants. Li		ecies in the	plot.	Dominance Test worksheet:
Tree	Stratum	% Cove		Status	Number of Dominant Species
1.	Picea glauca	_ 7	✓	FACU	That are OBL, FACW, or FAC: (A)
2.		0			Total Number of Dominant Species Across All Strata: 2 (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 Cover:	7	-		Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum 50% of Total Cover:	3.5 209	% of Total Cover:	1.4	OBL Species0 x 1 =0
1.	Betula nana	30	✓	FAC	FACW Species 0 x 2 = 0
	Picea glauca	10		FACU	FAC Species <u>49.1</u> x 3 = <u>147.3</u>
	Vaccinium uliginosum	10		FAC	FACU Species <u>18</u> x 4 = <u>72</u>
4.	Vaccinium vitis-idaea			FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.		0			Column Totals: <u>67.1</u> (A) <u>219.3</u> (B)
6.		0			
7.		0			Prevalence Index = B/A = 3.268
8.		0	- 📙		Hydrophytic Vegetation Indicators:
		0	- 📙		Dominance Test is > 50%
10.		0	- 🗆	FAC	☐ Prevalence Index is ≤3.0
Herb	Total Cover: 50% of Total Cover:				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Equisetum sylvaticum			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	Cornus suecica			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Geocaulon lividum			FACU	be present, unless disturbed or problematic.
	Equisetum arvense	-	- 📙	FAC	Plot size (radius, or length x width)
			- 📙		% Cover of Wetland Bryophytes
			- 🗒		(Where applicable)
			- 🗒		% Bare Ground
			- <u> </u>		Total Cover of Bryophytes
		0			Hydrophytic
.0.	Total Cover:	3.1	_		Hydrophytic Vegetation
	50% of Total Cover:1			0.62	Present? Yes No •
Rema	arks: equisetum a mix of sylvaticum and arvense, to	tal cover	of 1%. Herhs n	ot dominan	t as herh stratum has >5% total cover
	equipment of syrracidin and diverse, to	50701			- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12

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SOIL Sampling Point: SW12_T06_09

Profile Description Depth		Matrix				ox Featu			_	
(inches)	Color (m	oist)	%	Color (m	ioist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100						Fibric Organics	
2-4			100						Hemic Organics	
4-6	7.5YR	3/2	98	5YR	2.5/2	2	С	PL	Sandy Loam	
6-16	10YR	3/4	95	7.5YR	3/4				Sandy Loam	few charcoal inclusions
				7.01.1						Terr criar coar microsons
										-
Type: C=Conc	centration. D	=Depletior		ced Matrix	2 Location:	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix	-
		•			ors for Pro					
Hydric Soil Inc					ka Color Cha		4	JII3.	Alacka Cloved Without L	luo EV or Roddor
Histosol or H	, ,				ka Color Cris ka Alpine sw			_		lue of or Reduer
Histic Epiped Hydrogen S					ka Redox W	•	•		Other (Explain in Remar	ks)
_ ′ -	Surface (A4)))			ta redox II	10.1 2.51 1	ide			,
Alaska Gleye	`	-)							mary indicator of wetland I	nydrology,
Alaska Redo				and an	appropriate	landscap	e position i	must be pro	esent	
	ed Pores (A1	15)		4 Give d	details of col	lor change	e in Remarl	(S		
Restrictive Layer										
Type:	i (ii present)	•							Hydric Soil Present	:? Yes ○ No •
7.7									riyaric 3011 Fresent	.: 1es © 110 ©
Depth (inche Remarks: hin band of light	·	e sand (po	ssibly ash) a	nd charcoa	l atop 6-16	layer, sta	ining some	soils below	v.	
Remarks:	·	e sand (po	ssibly ash) a	nd charcoa	l atop 6-16	layer, sta	ining some	soils below	v.	
Remarks: hin band of light	ont colored find		ssibly ash) a	nd charcoa	l atop 6-16	layer, sta	ining some	soils below		
Remarks: hin band of light IYDROLOG Wetland Hydro	ology Indic	ators:		nd charcoa	atop 6-16	layer, sta	ining some	soils below	_Secondary Ind	icators (two or more are required)
Remarks: hin band of light HYDROLOG Wetland Hydro Primary Indicato	GY ology Indic ors (any one	ators:							Secondary Ind	ined Leaves (B9)
Remarks: hin band of light IYDROLOG Wetland Hydro Primary Indicato Surface Wa	GY ology Indictors (any one ater (A1)	ators:			undation Vis	sible on A	erial Image	ry (B7)	Secondary Ind	ined Leaves (B9) Patterns (B10)
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