WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T126_15
Investig	gator(s): SLI, SCB		Landform (hills	side, terrac	e, hummocks etc.): Hillside
Local r	elief (concave, convex, none): hummocky		Slope:	% / 10.9	9 ° Elevation: 728
Subrea	ion : Southcentral Alaska	Lat.:	62.886531168	9	Long.: -149.376447056 Datum: NAD83
-	p Unit Name:		02.000001100	<u> </u>	NWI classification: Upland
	· · · · · · · · · · · · · · · · · · ·		0 V.a.	• No ()	
Are V Are V	egetation , Soil , or Hydrology	significantly naturally pr	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
	MARY OF FINDINGS - Attach site map show	•	ipling point	locations	s, transects, important reatures, 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 wrks: small excavator developing trail downslope of site				
VEGE	TATION - Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dominance Test worksheet:
Tree	- Structure	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	e Stratum	<u>-78 Cover</u> 0		Status	That are OBL, FACW, or FAC: <u>2</u> (A)
2.					Total Number of Dominant
3.		0			Species Across All Strata: (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
		0			
0.	Total Cover				Prevalence Index worksheet:
6			of Total Cover:	0	Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 2078		0	OBL Species $0 \times 1 = 0$
1.	Spiraea stevenii	10		FACU	FACW Species 5.1 x 2 = 10.2
2.	Vaccinium uliginosum	10		FAC	FAC Species $48 \times 3 = 144$
3.	Betula nana	1		FAC	FACU Species <u>45.1</u> x 4 = <u>180.4</u>
4.	Empetrum nigrum			FAC	UPL Species $0 \times 5 = 0$
5.					Column Totals: <u>98.2</u> (A) <u>334.6</u> (B)
6.					Prevalence Index = B/A =3.407
7.		0			
8.		0			Hydrophytic Vegetation Indicators:
9.		0			Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
-	Total Cover:	11 20%	6 of Total Cover		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Chamaenerion angustifolium	15		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Calamagrostis canadensis			FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Sanguisorba officinalis	5		FACW	be present, unless disturbed or problematic.
4.	Gymnocarpium dryopteris			FACU	Plot size (radius, or length x width) <u>10m</u>
5.	Aconitum delphiniifolium	2		FAC	% Cover of Wetland Bryophytes
6.	Geranium erianthum			FACU	(Where applicable)
7.	Cornus suecica	2		FAC	% Bare Ground _10
8.	Veratrum viride	2		FAC	Total Cover of Bryophytes
9.	Trientalis europaea	0.1		FACU	
10.	Viola palustris	0.1		FACW	Hydrophytic
	Total Cover 50% of Total Cover:		of Total Cover:	15.24	Vegetation Present? Yes O No •
Rem	arks: bare ground including leaf litter				

(inches)	Color (m	oist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	Color (m	oist)	<u>-96</u> 100	Color (II	ioist)		Туре	LOC	Sapric Organics	Kemarko
2-4		4/3	100		·				Silt Loam	
4-6		2/1	100		·				Silt Loam	
6-8	10YR	2/1	100		·				Silt Loam	
8-18	10YR		100 .		·				Silt Loam	
0-10	101K	4/3	100		·					-
					·					
									-	
¹ Type: C=Conce	entration. D	=Depletion	. RM=Redu	ced Matrix	² Location	: PL=Pore	Lining. RC	C=Root Cha	nnel. M=Matrix	
Hydric Soil Ind					ors for Pro					
Histosol or H					ka Color Chi		4] Alaska Gleyed Without I	Hue 5Y or Redder
Histic Epiped	. ,				ka Alpine sv				Underlying Layer	
Hydrogen Su				Alasl	ka Redox W	ith 2.5Y H	le		Other (Explain in Remai	rks)
Thick Dark S	Surface (A12	2)								
Alaska Gleye	ed (A13)				ndicator of l appropriate				nary indicator of wetland	hydrology,
Alaska Redo	ox (A14)					-				
Alaska Gleye	ed Pores (A1	15)		- Give c	letails of co	lor change	in Remark	S		
Restrictive Layer	(if present)	:								
Type:									Hydric Soil Presen	t? Yes 🔾 No 🖲
Depth (inches	es):									
Remarks:										
CITUIN3.										
no hydric soil indi	licators									
	licators									
	licators									
no hydric soil indi										
io hydric soil indi	6Y									
o hydric soil indi IYDROLOG Wetland Hydro	SY blogy Indic		+)							licators (two or more are required)
io hydric soil indi IYDROLOG Vetland Hydro Primary Indicato	SY blogy Indic		t)		undation Vie	rible on Ao	rial Imago	ry (87)	Water Sta	ained Leaves (B9)
IYDROLOG Wetland Hydro Primary Indicato	SY blogy Indic ors (any one lter (A1)		t)		undation Vis		-		Water Sta	nined Leaves (B9) Patterns (B10)
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Remarks:

no wetland hydrology indicators