WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanuska-Su	isitna Borough	Sampling Date	: 05-Aug-12
Applicant/Owner: Alaska Energy Authority				Sam	oling Point:	SW12_T34_03
Investigator(s): SLI, KMK		Landform (hill	side, terrace, hu	ummocks etc.):	Nivation Hollo	W
Local relief (concave, convex, none): concave		Slope:	%/ 10.8 °	Elevation: 1	25	
Subregion : Southcentral Alaska	Lat.:	62.896534848	31 Lor	ng.: -148.6925	92326	Datum: NAD83
Soil Map Unit Name:				NWI clas	sification: Upla	nd
	ignificantl aturally p	ly disturbed? problematic?	(If needed,		es" present? Ye swers in Remarks	,
Hydrophytic Vegetation Present? Yes O No O		le	the Sample	d Aroa		
Hydric Soil Present? Yes O No 🔍			•		Yes 🔿 No 🖲	
Wetland Hydrology Present? Yes O No 🔍		WI	thin a Wetla	ina ?		
Remarks: nivation hollow, one of several along the slope at the	his eleva	ition.				

VEGETATION - Use scientific names of plants. List all species in the plot.

Tre	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: <u>3</u> (A)
2.			0			Total Number of Dominant Species Across All Strata:7(B)
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)
5.		Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover	:	OBL Species $1 \times 1 = 1$
1.	Empetrum nigrum		2		FAC	FACW Species <u>20</u> x 2 = <u>40</u>
2.	Salix rotundifolia		10		FAC	FAC Species <u>24</u> x 3 = <u>72</u>
3.	Luetkea pectinata		20	\checkmark	UPL	FACU Species <u>24</u> x 4 = <u>96</u>
4.	Loiseleuria procumbens		5		FACU	UPL Species x 5 =
5.	Harrimanella stelleriana		20	\checkmark	FACW	Column Totals: <u>94</u> (A) <u>334</u> (B)
6.	Cassiope tetragona		1		FACU	
7.			0			Prevalence Index = B/A = <u>3.553</u>
8.			0			Hydrophytic Vegetation Indicators:
9.			0			Dominance Test is > 50%
10.			0			Prevalence Index is ≤3.0
		Total Cover:	FO			

9.		0			Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Her	Total Cover: <u>b Stratum</u> 50% of Total Cover: <u>25</u>	<u>58</u> 209	% of Total Cover:	11.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Sibbaldia procumbens	7	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Diphasiastrum alpinum	3		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex microchaeta	5	\checkmark	FAC	be present, unless disturbed or problematic.
4.	Rhodiola integrifolia	1		FAC	Plot size (radius, or length x width) 2x5m
5.	Gentiana glauca	1		FAC	Plot size (radius, or length x width) <u>2x5m</u> % Cover of Wetland Bryophytes
6.	Juncus biglumis	1		OBL	(Where applicable)
7.	Anthoxanthum monticola ssp. alpinum	3		UPL	% Bare Ground 5
8.	Luzula arcuata	5	\checkmark	FACU	Total Cover of Bryophytes 60
9.	Trisetum spicatum	5	\checkmark	FAC	
10.	Antennaria monocephala	5	\checkmark	UPL	Hydrophytic
	Total Cover: 50% of Total Cover: <u>18</u>	36 20%	6 of Total Cover:	7.2	Vegetation Present? Yes O No •
Rem	arks: trace pedicularis sp.				

Dauth	(Matrix		ument the indicator or co Rea	dox Featu		(40013)		
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
025								Fibric Organics	
.2575	5YR	4/2	100					Silt Loam	eolian?
.75-2	<u></u>	· ·		·			p	Sapric Organics	
2-3	5YR	2.5/2	100					Silt Loam	-
3-15	5YR	4/4	60					Coarse Sandy Loam	40% subang-ang gravel-cobbles
				·					
¹ Type: C=Cond	centration. D)=Depletion	. RM=Red	uced Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
Hydric Soil In	dicators			Indicators for Pr	oblemati	c Hydric S	oils: ³		
Histosol or I				Alaska Color Cl		4	с Г	Alaska Gleyed Without	tue 5Y or Redder
Histic Epipe	. ,			Alaska Alpine s		,		Underlying Layer	
Hydrogen S				Alaska Redox V	•			Other (Explain in Rema	rks)
	Surface (A12	2)		2					
Alaska Gley	ed (A13)			³ One indicator of and an appropriat	hydrophy te landscar	tic vegetation	on, one pri must be pr	mary indicator of wetland esent	hydrology,
Alaska Redo	. ,								
Alaska Gley	ed Pores (A1	15)		⁴ Give details of c	Olor Chang		ks		
Poctrictive Lavor	r (if present)):							
Resultive Layer									~ ~ ~
Type:								Hydric Soil Presen	t? Yes 🔿 No 🖲
-	25):							Hydric Soil Presen	t? Yes 🔿 No 🖲
Type: Depth (inche Remarks: no hydric soil inc	dicators. refu	usal at 15in.						Hydric Soil Presen	t? Yes ○ No ●
Type: Depth (inche Remarks: no hydric soil inc	dicators. refu								
Type: Depth (inche Remarks: no hydric soil inc HYDROLOC Wetland Hydro	dicators. refu GY ology Indic	ators:						Secondary Inc	licators (two or more are required)
Type: Depth (inche Remarks: no hydric soil inc HYDROLOC Wetland Hydro Primary Indicato	dicators. refu GY ology Indic ors (any one	ators:		Trundation V	ricihle on A	erial Image		Secondary Inc	licators (two or more are required) iined Leaves (B9)
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Remarks:

no wetland hydrology indicators