WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampl	ling Date: 04-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Poin	nt: SW13_T150_09
Investigator(s): SLI, EAC	Landform (hills	side, terrace, hummocks etc.): Foots	lope
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation: 761	
Subregion : Interior Alaska Mountains	Lat.: 63.329958677	Long.: -148.281602859	Datum: WGS84
Soil Map Unit Name:		NWI classificatio	n: PEM1E
Are climatic/hydrologic conditions on the site typical for this time Are Vegetation, Soil, or Hydrology sign	of year? Yes	No (If no, explain in Rema Are "Normal Circumstances" preser	, o o
Are Vegetation 🛄 , Soil 🛄 , or Hydrology 🛄 natu	urally problematic?	(If needed, explain any answers in F	Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point	locations, transects, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes 🔍 No 🔿			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
Remarks: small PEM1E hgwsl at botton	n of hillside			

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

		A h	solute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.			0			
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.			0			Prevalence Index worksheet:
	Total Cov	er:	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $70.1 \times 1 = 70.1$
1.	Salix fuscescens		3	\checkmark	FACW	FACW Species <u>3.1</u> x 2 = <u>6.2</u>
2.	Vaccinium uliginosum		2	\checkmark	FAC	FAC Species x 3 =6
3.	Vaccinium oxycoccos		0.1		OBL	FACU Species x 4 =
4.	Ledum decumbens		0.1		FACW	UPL Species x 5 =
5.			0			Column Totals:(A)82.3(B)
			0			
			0			Prevalence Index = B/A = <u>1.094</u>
			0			Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is ≤3.0
	Total Cov		5.2			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	2.6	20%	of Total Cover:	1.04	Remarks or on a separate sheet)
1.	Eriophorum angustifolium		20	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis	_	50		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.			0			be present, unless disturbed or problematic.
4.			0			Plot size (radius, or length x width) <u>10m</u>
5.			0			% Cover of Wetland Bryophytes
6.			0			(Where applicable)
7.		_	0			% Bare Ground75
8.		_	0			Total Cover of Bryophytes 20
			0			
			0			Hydrophytic
	Total Cov	er:	70			Vegetation
	50% of Total Cover:	35	20%	of Total Cover:	14	Present? Yes No
Rem	arks: woody veg on microhighs. bare ground inclu	des o	oen wat	er		

	olor (moist)	%	Color (moist)	<u>% Type¹</u>	<u>Loc</u> ²	Texture	Remarks
					·		
		· ·					
							. <u> </u>
Type: C=Concentra	ation. D=Depletic	n. RM=Redu	ced Matrix ² Locatio	n: PL=Pore Lining. R	C=Root Chan	nel. M=Matrix	
ydric Soil Indicat	tors:		Indicators for P	roblematic Hydric S	oils ³		
Histosol or Histe			🗌 Alaska Color C	4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon	. ,		Alaska Alpine s	swales (TA5)		Underlying Layer	
Hydrogen Sulfide	e (A4)		Alaska Redox V	With 2.5Y Hue		Other (Explain in Remark	s)
Thick Dark Surfa	ice (A12)		3 One indicator of		on ono prima	any indicator of watland h	wdrology
Alaska Gleyed (A	-			te landscape position		ary indicator of wetland h sent	iyurology,
Alaska Redox (A			⁴ Give details of c	olor change in Remai	ks		
Alaska Gleyed Po	ores (A15)			eler ellerige in riellia			
estrictive Layer (if p	resent):						
							\sim \sim
Type: Depth (inches):						Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inches): emarks:						Hydric Soil Present	? Yes 🖲 No
Depth (inches):	community					Hydric Soil Present	? Yes • No O
Depth (inches): emarks:	community					Hydric Soil Present	? Yes ● No ○
Depth (inches): emarks: 2s when wading in c YDROLOGY /etland Hydrology	y Indicators:						? Yes • No ·
Depth (inches): emarks: s when wading in c YDROLOGY Yetland Hydrology	/ Indicators: any one is sufficie	nt)				Secondary Indi	cators (two or more are required) ned Leaves (B9)
Depth (inches): emarks: ts when wading in c YDROLOGY Yetland Hydrology rimary Indicators (a Surface Water (y Indicators: any one is sufficie A1)	nt)		/isible on Aerial Imag	ery (87)	Secondary Indi Water Stai Drainage F	cators (two or more are required) ned Leaves (B9) Patterns (B10)
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