WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date	e: 01-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point:	SW13_T202_08
Investigator(s): CTS, AMD	Landform (hills	side, terrace, hummocks etc.):	Flat	
Local relief (concave, convex, none): flat	Slope: 1.0	% / 0.6 ° Elevation: 65	5	
Subregion : Interior Alaska Mountains Lat.:	63.397442937	Long.: -148.550310)85	Datum: WGS84
Soil Map Unit Name:		NWI class	ification: PSS	1B
	ar? Yes ⁽ ntly disturbed? problematic?	 No (If no, explain ir Are "Normal Circumstances" (If needed, explain any answ 	"present? Ye	es • No () 3.)
SUMMARY OF FINDINGS - Attach site map showing sa	mplina point	locations, transects, impor	rtant features	s. etc.

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:					

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca	10	\checkmark	FACU	That are OBL, FACW, or FAC: (A)
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)
3.		٥			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC:80.0% (A/B)
5.		0			Description of Tandam considerate
	Total Cover	r: 10			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species $24.1 \times 1 = 24.1$
1	Salix richardsonii	15	\checkmark	FACW	FACW Species $17 \times 2 = 34$
2.	Dasiphora fruticosa	10	\checkmark	FAC	FAC Species 29.1 x 3 = 87.30
3.	Vessinium ulisineeum		 Image: A start of the start of	FAC	FACU Species $11 \times 4 = 44$
4	Detulo nono	0		FAC	UPL Species $0 \times 5 = 0$
5.	Murico aclo			OBL	
6.	Coliv pulobro			FACW	Column Totals: <u>81.2</u> (A) <u>189.4</u> (B)
•••	Vaccinium vitis-idaea	0.1		FAC	Prevalence Index = B/A = 2.333
	Empetrum nierum	0.1		FAC	Hydrophytic Vegetation Indicators:
					✓ Dominance Test is > 50%
		0			✓ Prevalence Index is ≤ 3.0
10.	Total Cover				
Her	b Stratum50% of Total Cover:		of Total Cover:	9.84	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	20	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus arcticus (IAM)	1		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense	1		FAC	be present, unless disturbed or problematic.
4.	Caltha palustris	0.1		OBL	
5.	Parnassia palustris	0.1		FACW	Plot size (radius, or length x width) <u>10m</u>
6.		0			% Cover of Wetland Bryophytes (Where applicable)
		-			% Bare Ground
					Total Cover of Bryophytes 40
		0			Hydrophytic
	Total Cover	22.2			Vegetation
	50% of Total Cover:	11.1 20%	of Total Cover:	4.44	Present? Yes \bullet No \bigcirc
Rem	arks: Lichen = 0				

 Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) 	(inches) Color (moist) % Type 1 0-16 100	Root Channel.	ric Organics	′ or Redder
Type: C = Concentration. D - Depletion. RM = Reduced Matrix ² Location: PL = Pure Lining, RC = Root Channel. M = Matrix Type: C = Concentration. D - Depletion. RM = Reduced Matrix ² Location: PL = Pure Lining, RC = Root Channel. M = Matrix Tradition of this is a propertie landscape statement of the problematic Hydric Solis? Indicators: Indicators for Problematic Hydric Solis? Indicators: Indicators for Problematic Hydric Solis? Holds of Histel (A1) Abska Redox (A1) Holds of Kingdow Suffice (A2) Abska Redox (Mh 2. SY Hue Haska Gleyed (A13) an approprise landscape position must persent Abska Gleyed (A13) an approprise landscape position must persent Abska Gleyed (A14) Abska Gleyed (A13) Abska Gleyed (A13) a approprise landscape position must persent Abska Gleyed Network (A14) 4 Give details of color change in Remarks Secondary Indicators (Intro or more are required) mark secondary Indicators (Intro or more are required) YDROLOGY Estimation Indicators (Intro or more are required) Vestore Marks (B1) Inundation Visible on Aerial Imagery (I7) Defining Profile Declamage Patterms (B10) Virtual Table (A2) Sparsely Vegatated Concave Surface (B15) Secondary Indicators (Intro or more are required) Ind	Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=I Hydric Soil Indicators: Indicators for Problematic Hydric Soil I Histosol or Histel (A1) Alaska Color Change (TA4) Histic Epipedon (A2) Alaska Alpine swales (TA5) Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, and an appropriate landscape position mu Alaska Gleyed (A13) ⁴ Give details of color change in Remarks estrictive Layer (if present): Type: Active layer	Root Channel.	M=Matrix ska Gleyed Without Hue 5Y derlying Layer ier (Explain in Remarks) indicator of wetland hydrol	
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Alaska Redox (A14) ⁴ Give details of color change in Remarks Alaska Gleyed Pores (A15) ⁴ Give details of color change in Remarks Type: Active layer Hydric Soil Present? Yes ● No ○ Depth (inches): 16 Hydric Soil Present? Yes ● No ○ (CROLOGY etail an appropriate failus.cip/e position intosition of the position	Alaska Redox (A14) 4 Give details of color change in Remarks strictive Layer (if present): Type: Active layer	ust be present		
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