WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	_ Sampling Date:	03-Aug-13
Applicant/Owne	r: Alaska Energy Authority		Samp	ling Point: S	W13_T159_05
Investigator(s):	CTS, AMD	Landform (hills	side, terrace, hummocks etc.):	Floodplain	
Local relief (cor	ncave, convex, none): flat	Slope:	% / 0.4 ° Elevation: 67	'3	
Subregion : In	terior Alaska Mountains Lat.:	63.379457950	9 Long.: -148.78977	7397 [Datum: NAD83
Soil Map Unit N	ame:		NWI class	sification: PSS1/	/EM1C
Are climatic/hyd Are Vegetation Are Vegetation		ar? Yes (ntly disturbed? problematic?	 No (If no, explain Are "Normal Circumstances (If needed, explain any ans 	s" present? Yes	s
SUMMARY	OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, impo	ortant features,	, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes () Yes () Yes ()		Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
Wetland Hydrology Present? Remarks:	res 💌	No	I	

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		2		FACU	That are OBL, FACW, or FAC: <u>3</u> (A)
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:
5.			0			Prevalence Index worksheet:
	Tot	al Cover:	2			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Co	ver:	120%	of Total Cover:	0.4	OBL Species $5 \times 1 = 5$
1.	Salix pulchra		25	\checkmark	FACW	FACW Species 41 x 2 = 82
2.	Salix richardsonii		15	\checkmark	FACW	FAC Species <u>50.1</u> x 3 = <u>150.3</u>
3.	Salix pseudomonticola		8		FAC	FACU Species 25 x 4 = 100
4.	Picea glauca				FACU	UPL Species 0 x 5 = 0
5.	Dasiphora fruticosa		-		FAC	Column Totals: <u>121.1</u> (A) <u>337.3</u> (B)
6.			4		FAC	
7.						Prevalence Index = B/A = <u>2.785</u>
						Hydrophytic Vegetation Indicators:
			-			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
		al Cover:				Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Co	over:	31 20%		: 12.4	Remarks or on a separate sheet)
1.	Calamagrostis canadensis		25	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Anemone parviflora		10	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus arcticus (IAM)		8		FACU	be present, unless disturbed or problematic.
4.	Comarum palustre		5		OBL	Plot size (radius, or length x width) 10m
5.	Equisetum arvense		5		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.	Polemonium acutiflorum		2		FAC	(Where applicable)
7.	Astragalus alpinus		1		FAC	% Bare Ground
8.	Parnassia palustris		1		FACW	Total Cover of Bryophytes 5
9.	Viola palustris (IAM)		0.1		FAC	
10.			0			Hydrophytic
		al Cover:	57.1			Vegetation
	50% of Total Co	ver: _28		of Total Cover:	11.42	Present? Yes O No
Dam	option Listen O total transmission (50/ thus					

Remarks: Lichen = 0. total tree cover <5% thus no dominant tree species.

Depth (inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks 0-7 2.5Y 3/2 100	
0-7 2.5Y 3/2 100 Silt Loam very fibric	
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¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³	
Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder	
Histic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer	
Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks)	
Thick Dark Surface (A12)	
³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology,	
 ✓ Alaska Gleyeu (A13) and an appropriate landscape position must be present ✓ Alaska Redox (A14) 	
Alaska Reduct (A17) Give details of color change in Remarks	
Restrictive Layer (if present):	
Type: Active layer Hydric Soil Present? Yes • No	
Depth (inches): 16	
Remarks:	
HYDROLOGY	ed)
Wetland Hydrology Indicators: Secondary Indicators (two or more are required)	
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