WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	05-Aug-13
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: SV	/13_T192_05
Investigator(s): CTS, AMD	Landform (hills	ide, terrace, hummocks etc.):	Floodplain	
Local relief (concave, convex, none): flat	Slope: 3.0	% / 1.7 ° Elevation: 691	-	
Subregion : Interior Alaska Mountains Lat.:	63.334840894	Long.: -148.242833	376 Da	atum: WGS84
Soil Map Unit Name:		NWI classi	fication: PSS1C	
	ar? Yes (itly disturbed? problematic?	 No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ 	present? Yes	● No ○
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point I	ocations, transects, import	tant features, e	etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ●	No O No O No O	Is the Sampled Area within a Wetland? Yes \bigcirc No \textcircled{ullet}
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.		0			That are OBL, FACW, or FAC:9_(A)
2.		0			Total Number of Dominant
3.					Species Across All Strata:(B)
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: 90.0% (A/B)
4. 5.					
5.		0			Prevalence Index worksheet:
	Total Cover				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 2 x 1 = 2
1.	Picea glauca	2		FACU	FACW Species <u>5.1</u> x 2 = <u>10.2</u>
2.	Salix alaxensis	35	\checkmark	FAC	FAC Species <u>92</u> x 3 = <u>276</u>
3.	Salix pseudomonticola	25	\checkmark	FAC	FACU Species <u>6</u> x 4 = <u>24</u>
	Salix barclayi	20	\checkmark	FAC	UPL Species x 5 =
5.	Dasiphora fruticosa	F		FAC	Column Totals: 105.1 (A) 312.2 (B)
6.		0			
					Prevalence Index = B/A = 2.971
					Hydrophytic Vegetation Indicators:
					✓ Dominance Test is > 50%
					✓ Prevalence Index is ≤ 3.0
	Total Cover				 Morphological Adaptations¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:		of Total Cover	17.4	Remarks or on a separate sheet)
1.	Chamerion latifolium	2	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Hedysarum alpinum	4	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must
3	Barnassia naluatria	1		FACW	be present, unless disturbed or problematic.
4.	Ranunculus lapponicus			OBL	
5.	Equisetum palustre	· · ·	\checkmark	FACW	Plot size (radius, or length x width) <u>10m</u>
6.	Equisetum arvense		\checkmark	FAC	% Cover of Wetland Bryophytes (Where applicable)
7.	Calamagrostis canadensis	2	\checkmark	FAC	% Bare Ground _ <u>35</u>
8.	Viola epipsila	0.1		FACW	Total Cover of Bryophytes 10
9	Sanguisorba canadensis		\checkmark	FACW	
10.					Underselbertie
10.	Total Cover				Hydrophytic Vegetation
	50% of Total Cover:		of Total Cover:	3.62	Present? Yes No
Rem	arks: Lichen = 0			0.02	1

Matrix Redox Features Color (moist) % Color (moist) % Type1 Loc2 Texture Remark 0-16 2.5Y 4/2 100 Sand Cobbles and gravel comm	
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Indicators: Indicators for Problematic Hydric Soils. ³ Hydric Soil Indicators: Indicators for Problematic Hydric Soils. ³ Histosol or Histel (A1)	
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☐ 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 Redox (A14) and an appropriate landscape position must be present	
Alaska Gleyed Pores (A15) ⁴ Give details of color change in Remarks	
Restrictive Layer (if present):	
Type: Hydric Soil Present? Yes 🔿 No	•
Depth (inches):	
Remarks:	
fluvaquent soils	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (two or more are	required)
Primary Indicators (any one is sufficient) Water Stained Leaves (B9)	
□ Surface Water (A1) □ Inundation Visible on Aerial Imagery (B7) ☑ Drainage Patterns (B10)	
High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living	Roots (C3)
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