WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 02-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T149_07			
	gator(s): SLI, EAC		Landform (hil	side, terrac	e, hummocks etc.): Valley bottom			
	relief (concave, convex, none): flat		Slope: 5.2		o ° Elevation: 677			
		l ot :						
	gion : Interior Alaska Mountains	Lat	63.38237309	<u> </u>				
	ap Unit Name:			<u> </u>	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , Soil , or Hydrology	significant naturally p owing sar	ly disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No No No eded, explain any answers in Remarks.)			
	() () () () () () () () () ()		Is	the Sam	pled Area			
				within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes No	<u> </u>						
	narks: see SW13-T149-05 for description of boundary	ist all sp	ecies in the	•	Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species			
	Picea glauca	20	V	FACU	That are OBL, FACW, or FAC: (A)			
2.			. <u> </u>		Total Number of Dominant Species Across All Strata: 3 (B)			
3.			·					
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.					Daniel and Tarden markets at			
	Total Cove	er: 20			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Saı	oling/Shrub Stratum 50% of Total Cover:	10 20%	6 of Total Cover	44	OBL Species 0 x 1 = 0			
				FACU	FACW Species 22 x 2 = 44			
	Picea glauca		-	FACU	FAC Species 85 x 3 = 255			
2. 3.	Rosa acicularis Salix pulchra		. <u> </u>	FACU	FACU Species 32.1 x 4 = 128.4			
4.	Ribes triste			FAC	UPL Species 0 x 5 = 0			
5.	Oning a state will		·	FACU				
6.	· ·				Column Totals: <u>139.1</u> (A) <u>427.4</u> (B)			
7.		0	·		Prevalence Index = B/A = 3.073			
8.					Hydrophytic Vegetation Indicators:			
9.		•			✓ Dominance Test is > 50%			
10.					☐ Prevalence Index is ≤3.0			
	Total Cove rb Stratum 50% of Total Cover:		- - % of Total Cove	: 6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis	80	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Polemonium acutiflorum	1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Aconitum delphinifolium	1		FAC	be present, unless disturbed or problematic.			
4.	Mertensia paniculata	2		FACU	Plot size (radius, or length x width) 10m			
5.	Rubus arcticus ssp. acaulis			FAC	Plot size (radius, or length x width)			
6.	Cornus suecica	1		FAC	(Where applicable)			
7.	Petasites frigidus	2	. 🔲	FACW	% Bare Ground			
8.	Chamerion angustifolium		. 📙	FACU	Total Cover of Bryophytes			
9.			. 📙					
10.		0	. \square		Hydrophytic			
1	Total Cove			17.82	Vegetation Present? Yes ● No ○			
	50% of Total Cover:							

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SOIL Sampling Point: SW13 T149 07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence	of indicators)		10iiii: 51115_1145_07
Depth Matrix Redox Features		_	
(inches) Color (moist) % Color (moist) % Type	pe ¹ Loc ²	Texture	Remarks
0-3 10YR 3/2 100		Silt Loam	
3-17 7.5YR 2.5/1 2.5YR 3/4		Silt Loam	
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Linir	ng. RC=Root Cha	annel. M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hyd	ric Soils: ³		
Histosol or Histel (A1) Alaska Color Change (TA4)		Alaska Gleyed Without Hu	e 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	5)
Thick Dark Surface (A12) Thick Dark Surface (A12) 3 One indicator of hydrophytic veg			advada av
Alaska Gleyed (A13) and an appropriate landscape pos			drology,
Alaska Redox (A14) Alaska Redox (A15) Give details of color change in Redox (A15)	omarks		
Alaska Gleyed Pores (A15)	emarks		
Restrictive Layer (if present):			
Type:		Hydric Soil Present?	Yes O No 💿
Depth (inches):			
Remarks:			
no hydric soil indicators. 3-17in - lenses of decomposed organics and sand from prior de	position events		
HYDROLOGY			
HYDROLOGY Wetland Hydrology Indicators:		Secondary Indic	ators (two or more are required)
			ators (two or more are required) ed Leaves (B9)
Wetland Hydrology Indicators:	magery (B7)	Water Stain	
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)		Water Stain Drainage Pa	ed Leaves (B9)
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) Inundation Visible on Aerial I		Water Stain Drainage Pa Oxidized Rh	ed Leaves (B9) atterns (B10)
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