WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 03-Aug-13						
Applica	nt/Owner: Alaska Energy Authority			Sampling Point: SW13_T194_09							
	gator(s): SLI, EAC	side terrac	e, hummocks etc.): Valley bottom								
-	elief (concave, convex, none): flat		o ° Elevation: 804								
	,		· —								
_	ion : Interior Alaska Mountains	Lat (33.356007099	,	Long.:148.328899026						
	p Unit Name:	0 0	NWI classification: PSS1B								
Are Vo		significantly naturally pro ving sam	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.)						
	, , ,	the Sam	pled Area								
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ● No ○								
	Wetland Hydrology Present? Yes ● No ○										
Remarks: fnwws w stow understory. VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Dominance Test worksheet:											
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)						
	Picea glauca	10	~	FACU	Total Number of Dominant						
2.		0			Species Across All Strata: 4 (B)						
3.		0			Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC: 75.0% (A/B)						
5.					Prevalence Index worksheet:						
	Total Cover:				Total % Cover of: Multiply by:						
Sapl	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species <u>2.1</u> x 1 = <u>2.1</u>						
1.	Picea glauca	2		FACU	FACW Species <u>38.1</u> x 2 = <u>76.2</u>						
2.	Salix reticulata	35	✓	FAC	FAC Species <u>121</u> x 3 = <u>363</u>						
3.	Salix pulchra	20		FACW	FACU Species 12.1 x 4 = 48.40						
4.	Salix barclayi	35	✓	FAC	UPL Species0 x 5 =0						
5.	Salix richardsonii	10		FACW	Column Totals: <u>173.3</u> (A) <u>489.7</u> (B)						
6.	Alnus viridis	3		FAC							
7.	Vaccinium uliginosum	10		FAC	Prevalence Index = B/A = 2.826						
8.	Arctostaphylos rubra	5		FAC	Hydrophytic Vegetation Indicators:						
9.	Vaccinium oxycoccos	0.1		OBL	✓ Dominance Test is > 50%						
10.	Empetrum nigrum	_1_		FAC	✓ Prevalence Index is ≤3.0						
Herl	Total Cover: 50% of Total Cover: 6	: 24.22	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1.	Rubus chamaemorus	5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Petasites frigidus	2		FACW	¹ Indicators of hydric soil and wetland hydrology must						
3.	Equisetum arvense	30	~	FAC	be present, unless disturbed or problematic.						
4.	Swertia perennis	0.1		FACW	Plot size (radius, or length x width) 10m						
5.	Moneses uniflora	0.1		FACU	% Cover of Wetland Bryophytes						
6.	Cornus suecica			FAC	(Where applicable)						
7.	Carex aquatilis			OBL	% Bare Ground						
8.	Calamagrostis canadensis	1		FAC FACW	Total Cover of Bryophytes 97						
9.	Parnassia palustris			FACW							
10 O Hydrophytic Total Cover: 42.2 Vegetation											
	50% of Total Cover: 2	8.44	Present? Yes No								
_			of Total Cover:		1						
Rema	arks:										

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SOIL Sampling Point: SW13_T194_09

		the depth n	eeded to docum	ent the indicator or co	nfirm the abs		ators)					
Depth (inches)	Color (mo	nist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-4	5YR	2.5/1	100	Color (IIIOISC)		1700		Fibric Organics				
	2.5YR							Hemic Organics				
4-18		2.5/1						- Tierriic Organics				
	-				-							
1 Type: C=Con	 centration. D:	=Denletion	. RM=Reduce	d Matrix ² Location	n: Pl =Pore	- Lining, RC	=Root Cha	annel. M=Matrix				
		Беріссіон	THE REGUEE					anien i i idan				
Hydric Soil Ir				Indicators for Pr		4	oils:	1				
✓ Histosol or	. ,			Alaska Color Cl			☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer					
Histic Epipe	edon (A2)			Alaska Alpine s		•		, , ,	,			
Hydrogen :	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	S)			
Thick Dark	Surface (A12)		30 :	h	: 			and and a second			
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland h esent	ydrology,			
Alaska Red	lox (A14)					•	•					
Alaska Gley	yed Pores (A1	5)		⁴ Give details of co	olor change	e in Remark	S					
Restrictive Laye	r (if present):											
Type:								Hydric Soil Present?	? Yes ● No O			
Depth (inch	es):											
HYDROLO	GY											
Wetland Hydr	ology Indica	itors:						Secondary Indic	cators (two or more are required)			
Primary Indicat	tors (any one	is sufficien	t)					Water Stained Leaves (B9)				
Surface W	Surface Water (A1)					e on Aerial Imagery (B7) Drainage Patterns (B10)						
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized RI	nizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	s (B15)			Presence of	f Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Deposi	its (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)			
					in in Rema			Geomorphi	c Position (D2)			
	or Crust (B4)					-,		Shallow Aq				
☐ Iron Depo	. ,								raphic Relief (D4)			
. —	oil Cracks (B6)							FAC-neutra				
Field Observa												
Surface Water		Yes C	No ●	Depth (inche	ıs):							
			No O		,		Wotla	nd Hudrology Broson	t? Yes • No O			
Water Table P				Depth (inche	s): 10		wetiai	nd Hydrology Presen	tr res S NO C			
Saturation Pre (includes capil		Yes 🤄	No O	Depth (inche	es): 8							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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