WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	ca-Susitna Borough Sampling Date: 04-Aug-13										
Applica	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T150_04										
nvesti	gator(s): SLI. EAC	lside, terrac	e, hummocks etc.): Hillside									
Local	relief (concave, convex, none): hummocky		Slope: % / ° Elevation: 770									
	gion : Interior Alaska Mountains	lat: 6	t.: 63.332307696		Long.: -148.288128138 Datum: WGS84							
			03.332307090									
	ap Unit Name:		. V	No ○	NWI classification: PSS1B							
Are \	MARY OF FINDINGS - Attach site map sho	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.							
ls the Sampled Area												
			within a Wetland? Yes ● No ○									
	Wetland Hydrology Present? Yes No	<i></i>										
	narks: ETATION - Use scientific names of plants. L	ist all spe	cies in the		Dominance Test worksheet:							
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
	Picea glauca	15	~	FACU	Total Number of Dominant							
2.		0			Species Across All Strata: 4 (B)							
3.					Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cove				Total % Cover of: Multiply by:							
Sap	oling/Shrub Stratum 50% of Total Cover:	7.5 20%	of Total Cover	:3	OBL Species3 x 1 =3							
1.	Salix reticulata	30	✓	FAC	FACW Species 20.1 x 2 = 40.20							
2.	Vaccinium uliginosum	2		FAC	FAC Species <u>159.1</u> x 3 = <u>477.3</u>							
3.	Dasiphora fruticosa	0.1		FAC	FACU Species 20 x 4 = 80							
4.	Salix pulchra	15		FACW	UPL Species0 x 5 =0							
5.	Salix barclayi	65	✓	FAC	Column Totals: <u>202.2</u> (A) <u>600.5</u> (B)							
6.	Picea glauca	5		FACU								
7.	Empetrum nigrum	2		FAC	Prevalence Index = B/A = 2.970							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			✓ Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
Hei	Total Cove rb Stratum 50% of Total Cover: _		of Total Cove	r: <u>23.82</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Rubus chamaemorus	5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Comarum palustre	3		OBL	¹ Indicators of hydric soil and wetland hydrology must							
3.	Equisetum arvense		~	FAC	be present, unless disturbed or problematic.							
	Parnassia palustris			FACW	Plot size (radius, or length x width)							
		•			% Cover of Wetland Bryophytes							
					(Where applicable)							
					% Bare Ground7							
					Total Cover of Bryophytes							
		- 0										
10.	Total Cove				Hydrophytic Vegetation Present? Yes No							
1			-f T-+-1 C	. 42.62								
	50% of Total Cover:	34.05 20%	of Total Cover	13.h/	riesche: ies a no a							

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SOIL Sampling Point: SW13_T150_04

	IOII. (Describe c	Matrix	deueu io docum	nent the indicator or co	dox Featu		dluisj		
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	5YR	3/2	100					Fibric Organics	
4-10	5YR	2.5/1	100					Hemic Organics	
	-								
								-	
¹Type: C=Co	ncentration. D	=Depletion	. RM=Reduce	ed Matrix ² Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: ³		·
Histosol o	r Histel (A1)			Alaska Color C	hange (TA	4 4)		Alaska Gleyed Without Hu	ie 5Y or Redder
✓ Histic Epip	pedon (A2)			Alaska Alpine	swales (TA	5)	_	Underlying Layer	
	Sulfide (A4)			Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remark	5)
Thick Dark	k Surface (A1	2)							
Alaska Gle	eyed (A13)			³ One indicator of and an appropria				nary indicator of wetland hy	ydrology,
Alaska Red	dox (A14)					•			
Alaska Gle	eyed Pores (A	15)		⁴ Give details of c	olor chang	e in Remark	S		
Restrictive Laye	er (if present)):							
Type: acti	ve layer							Hydric Soil Present?	Yes No
Depth (incl	nes): 20								
HYDROLO	GY								
Wetland Hyd	rology Indic	ators:						Secondary Indic	ators (two or more are required)
Primary Indica	itors (any one	e is sufficien	t)					Water Stair	ned Leaves (B9)
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)					atterns (B10)
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					nizospheres along Living Roots (C3)
✓ Saturation (A3)				Marl Deposits (B15)					Reduced Iron (C4)
☐ Water Ma				Hydrogen Su				☐ Salt Deposi	
	Deposits (B2)		☐ Dry-Season					Stressed Plants (D1)
	Drift Deposits (B3)				in in Rema	ırks)			Position (D2)
☐ Algai Mat	or Crust (B4))						✓ Shallow Aq	` '
	osits (B5) oil Cracks (B6	: \						FAC-neutral	raphic Relief (D4)
Field Observa		')						TAC-fleutia	rest (D3)
Surface Wate		Yes C	No ●	Depth (inche	es):				
Water Table F			No O	, ,	•		Wetlar	nd Hydrology Present	t? Yes • No O
Saturation Pre				Depth (inche	es): 6		Wedai	na rryarology r resem	ie les C No C
(includes capi		Yes •	No O	Depth (inche	es): 4				
Describe Recor	ded Data (str	eam gauge	, monitor well	l, aerial photos, pre	vious inspe	ection) if ava	ilable:		
Remarks:									
. comornor									

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