WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Denali Bo	rough Sampling D	ate: 06-Aug-12
Applica	int/Owner: Alaska Energy Authority				Sampling Point:	SW12_T04_02
	gator(s): CTS. EKJ		Landform (hill	side, terrac	e, hummocks etc.): Mountainsl	
	elief (concave, convex, none): flat		Slope:	%/ 38.1	p	
Subreo	ion : Interior Alaska Mountains	Lat ·	63.461488204	 17	Long.: -148.643175184	Datum: NAD83
-	p Unit Name:	-	05.40140020	Ŧ/	-	
	natic/hydrologic conditions on the site typical for this tir		0 Voo	• No ()	NWI classification: _U (If no, explain in Remarks.)	piand
Are V Are V	egetation 🗌 , Soil 🗌 , or Hydrology 🗌 s	significantly naturally pr	y disturbed? roblematic?	Are "N (If nee	ormal Circumstances" present? ded, explain any answers in Rema	
	Hydrophytic Vegetation Present? Yes No C)	_			
	Hydric Soil Present? Yes O No 🖲)			pled Area	
	Wetland Hydrology Present? Yes O No 🖲)	w	ithin a W	etland? Yes \bigcirc No $ullet$	
	arks: Open tall alder on steep slope, Vaculi and Spiste of open tall birch (Betgla), probably more birch th	an alder!			ble polygon on the slope (seen fron	n below) has large areas
VEGE	TATION - Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dominance Test worksheet:	
Tree	- Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species	
1.	e Stratum	<u>-% Cover</u> 0		Status	That are OBL, FACW, or FAC:	(A)
2.		0			Total Number of Dominant	
3.		0			Species Across All Strata:	<u>3</u> (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC:	66.7% (A/B)
5.		0				
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Mul	ltiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:		of Total Cover	0		4
-		-				1 = 0 2 = 0
	Vaccinium uliginosum			FAC		3 = 369
2. 3.	Alnus viridis	50		FAC		4 = 212
3. 4.	Spiraea stevenii Vaccinium vitis-idaea	 		FAC		5 = 0
		0		TAC		
6.		0			Column Totals: <u>176</u> (/	A) <u>581</u> (B)
7.		0			Prevalence Index = B/A =	3.301
8.		0			Hydrophytic Vegetation Indicator	rs'
9.		0			Dominance Test is > 50%	5.
10.		0			Prevalence Index is ≤3.0	
Her	Total Cover:		6 of Total Cover	: 29	Morphological Adaptations ¹ (Pro Remarks or on a separate sheet	ovide supporting data in
-	Cornus canadensis	25	\checkmark	FACU	Problematic Hydrophytic Vegeta	
	Calamagrostis canadensis			FAC	¹ Indicators of hydric soil and wetland	
3.	Chamaenerion angustifolium			FACU	be present, unless disturbed or probl	
-	Trientalis europaea	1		FACU		
5.		-			Plot size (radius, or length x width)	<u>10m</u>
		•			% Cover of Wetland Bryophytes (Where applicable)	0
		•			% Bare Ground	20
8.		0			Total Cover of Bryophytes	20
		0			Hydrophytic	
	Total Cover:	-			Vegetation Present? Yes • No	\cap
	50% of Total Cover:	5.5 20%	of Total Cover	6.2	Present? Yes • No	
Rem	arks:					

SOIL

	Matrix		nent the indicator or cor Rec	lox Featu		cators)		
Depth (inches) Co	or (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-2		80%					Fibric Organics	20% roots
2-4		80					Hemic Organics	20% roots
4-8 2.5	Y 3/1	90					Sandy Loam	10% roots w few rounded cobbles
8-18 5		70					Sandy Loam	
<u> </u>	2.5/1	70						
. <u> </u>								
·							-	
								- F
¹ Type: C=Concentrat	on. D=Depletio	n. RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	
Hydric Soil Indicato	rs:		Indicators for Pr	oblemati	c Hydric S	oils: ³		
Histosol or Histel (Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A			Alaska Alpine s	• •			Underlying Layer	
Hydrogen Sulfide	-		Alaska Redox V		-		Other (Explain in Remarl	<s)< td=""></s)<>
Thick Dark Surface	· ·							
Alaska Gleyed (A1	3)		³ One indicator of and an appropriat	hydrophy	tic vegetation	on, one prin	nary indicator of wetland h	nydrology,
Alaska Redox (A14	ł)						csent	
Alaska Gleyed Por	es (A15)		⁴ Give details of co	olor chang	e in Remarl	ks		
Restrictive Layer (if pre	sent):							
Type:							Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inches):							-	
Remarks:								
no hydric soil indicators	s. 8-18in layer w	vith 30% ang-	semiang gvl and cob	s w coarse	e sand			
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no hydric soil indicators	s. 8-18in layer w	vith 30% ang-	semiang gvl and cob	s w coarse	e sand			
		vith 30% ang-	semiang gvl and cob	s w coarse	e sand		Secondary Indi	cators (two or more are required)
HYDROLOGY	Indicators:		semiang gvl and cob	s w coarse	e sand			cators (two or more are required) ned Leaves (B9)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A	Indicators: y one is sufficie		Inundation V	isible on A	erial Image	, , ,	Water Stai	ned Leaves (B9) Patterns (B10)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A High Water Table	Indicators: y one is sufficie		Inundation V	isible on A etated Cor	erial Image	, , ,	Water Stai	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A High Water Table Saturation (A3)	Indicators: y one is sufficie l) (A2)		Inundation V Sparsely Veg Marl Deposits	isible on A etated Cor 5 (B15)	erial Image ncave Surfa	, , ,	Water Stai	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) ff Reduced Iron (C4)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	Indicators: y one is sufficie l) (A2)		Inundation V Sparsely Veg Marl Deposits Hydrogen Su	isible on A etated Cor ; (B15) Ifide Odor	erial Image ncave Surfa (C1)	, , ,	Water Stai	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	Indicators: y one is sufficie L) (A2) s (B2)		Inundation V Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	isible on A etated Cor ; (B15) Ifide Odor Vater Tabl	erial Image ncave Surfa (C1) e (C2)	, , ,	Water Stai Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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