WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 31-Jul-13						
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T158_02								
	gator(s): CTS, AMD		Landform (hill	side, terrac	ce, hummocks etc.): Shoreline						
-	elief (concave, convex, none): concave		Slope: 0.0		O ° Elevation: 730						
	ion : Interior Alaska Mountains										
		Lat <u>(</u>	33.370325565)							
	p Unit Name:			<u> </u>	NWI classification: PEM1/SS1E						
Are V Are V	egetation . , Soil . , or Hydrology MARY OF FINDINGS - Attach site map show	significantly naturally pro wing sam	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes No	ipled Area									
	Hydric Soil Present? Yes No			within a Wetland? Yes No							
	Wetland Hydrology Present? Yes ● No C)	VVI	umi a vv	etialia:						
Remarks: 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: 5 (A)						
1.					Total Number of Dominant						
2.		0			Species Across All Strata:5(B)						
3.					Percent of dominant Species						
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.		0 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 <u>21.1</u> x 1 = <u>21.1</u>						
1.	Betula nana	10	✓	FAC	FACW Species <u>13.1</u> x 2 = <u>26.20</u>						
2.	Ledum decumbens	8	✓	FACW	FAC Species 21 x 3 = 63						
3.	Vaccinium uliginosum	8	✓	FAC	FACU Species 0 x 4 = 0						
4.	Empetrum nigrum			FAC	UPL Species <u>0</u> x 5 = <u>0</u>						
5.	Andromeda polifolia (IAM)			OBL	Column Totals: <u>55.2</u> (A) <u>110.3</u> (B)						
6.	Salix arbusculoides	1		FACW	Prevalence Index = B/A = 1.998						
7.											
8.					Hydrophytic Vegetation Indicators:						
9.					✓ Dominance Test is > 50%						
10.	T.1.10.				✓ Prevalence Index is ≤3.0						
Her	Total Cover b Stratum 50% of Total Cover:		_	: 6.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Carex rotundata		✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Carex saxatilis			FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
3.	Eriophorum russeolum			FACW	be present, unless disturbed of problematic.						
4.	Menyanthes trifoliata	7		OBL	Plot size (radius, or length x width)						
5.	Carax aquatilis	$\frac{1}{0.1}$		FAC OBL	% Cover of Wetland Bryophytes						
6.	Carex aquatilis Carex magellanica	1		OBL	(Where applicable)						
7. 8.	Podicularia labradorias	0.1		FACW	% Bare Ground 10						
	Frienherum angustifalium	1		OBL	Total Cover of Bryophytes35						
10.	Enopriorum angustilolium	0			Hydronhytic						
	Total Covers		Hydrophytic Vegetation								
	50% of Total Cover:	4.84	Process Voc (e) No (
Dom	arks: Lichon – 10										
Rem	Total Cover		of Total Cover:	4.84	Vegetation						

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SOIL Sampling Point: SW13_T158_02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator Matrix Redox Features						cators)				
Depth (inches)							2	Texture	Remarks	
	Color (moi	st)	<u>%</u>	Color (moist)	_%_	Type ¹	<u>Loc</u> 2		Remarks	
0-21								Fibric Organics		
							-			
¹Type: C=Co	ncentration. D=	Depletion. F	Reduce	ed Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	Indicators:			Indicators for Pr		4	oils: ³			
✓ Histosol o	or Histel (A1)			Alaska Color Cl	hange (TA	4)		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
Histic Epi	pedon (A2)			Alaska Alpine s						
Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue Uther (Explain in Remarks)						
☐ Thick Dar	rk Surface (A12)			3.0	Ch. Janaha			to decrease and an all his		
Alaska Glo	eyed (A13)			One indicator of and an appropria				nary indicator of wetland h esent	ydrology,	
Alaska Re	edox (A14)						·	23CHC		
Alaska Gle	eyed Pores (A15)		⁴ Give details of o	olor chang	e in Remarı	ks			
Restrictive Lay	ver (if present):								- 0	
Type:								Hydric Soil Present	? Yes ● No O	
Depth (inc	:hes):									
HYDROLO)GY									
Wetland Hyd	drology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)	
	Water (A1)			Inundation V		_		_	Patterns (B10)	
_	ter Table (A2)			Sparsely Veg	jetated Cor	ncave Surfa	ice (B8)		hizospheres along Living Roots (C3)	
✓ Saturatio	. ,			Marl Deposit	` ,				of Reduced Iron (C4)	
Water Ma				Hydrogen Su	lfide Odor	(C1)		Salt Depos		
	Sediment Deposits (B2) Dry-Season Water Table (C2)								Stressed Plants (D1)	
	oosits (B3)			Other (Expla	iin in Rema	arks)		_	ic Position (D2)	
	t or Crust (B4)								quitard (D3)	
	osits (B5)								graphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observ										
Surface Wate	er Present?	Yes O		Depth (inche	es):					
Water Table	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 11		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pro (includes cap		Yes	$_{No}\bigcirc$	Depth (inche	es): 5					
Describe Reco	rded Data (strea	ım gauge, n	nonitor well	ll, aerial photos, pre	vious inspe	ection) if av	ailable:			
Remarks:										
	at pond margin,	. on plot, bu	ut not at pit	Γ						
	жерт. <u>Э</u> .									

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