WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 07-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T165_04			
	igator(s): CTS, AMD		Landform (hillside, terrace, hummocks etc.): Flat					
	relief (concave, convex, none): flat		Slope:	% / 1.3				
	gion : Interior Alaska Mountains	l at ·	63.3878759154 Long.: -148.508416892 Datum: NAD8					
		Lat						
	ap Unit Name:		0 V	■ N= ○	NWI classification: PEM1/SS1B			
	matic/hydrologic conditions on the site typical for this til	•		● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
		•	y disturbed?		ionnal oli cametaneco precent.			
Are v	/egetation ☐ , Soil ☐ , or Hydrology ☐ ı	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C)						
	Hydric Soil Present? Yes ● No C)	Is the Sampled Area					
	Wetland Hydrology Present? Yes ● No C)	within a Wetland? Yes ● No ○					
Rem	* **							
/FGI	ETATION - Use scientific names of plants. Li	ct all cne	ocias in tha	nlot				
	ETATION - Ose scientific flames of plants. Li	•			Dominance Test worksheet:			
Tre	ee Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:5(A)			
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.		0						
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Covers	<u> </u>			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 31 x 1 = 31			
1	Coliv pulobro	10	✓	FACW	FACW Species 40 x 2 = 80			
2.	Salix pulchra Salix barclayi	15		FACV	FAC Species 32 x 3 = 96			
3.	Salix balciayi Salix richardsonii	10	. V	FACW	FACU Species 0 x 4 = 0			
4.	Dasiphora fruticosa	5		FAC	UPL Species 0 x 5 = 0			
5.	Vaccinium uliginosum	5		FAC				
6.	Vaccinium vitis-idaea	1		FAC	Column Totals: <u>103</u> (A) <u>207</u> (B)			
7.					Prevalence Index = B/A = 2.010			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
	Total Covers	46	ı		☐ Morphological Adaptations ¹ (Provide supporting data in			
Hei	rb Stratum 50% of Total Cover:		20% of Total Cover: 9.		Remarks or on a separate sheet)			
1.	Carex saxatilis	20	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Carex aquatilis	30	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Equisetum arvense	- 3		FAC	be present, unless disturbed or problematic.			
4.	Calamagrostis canadensis	2		FAC	Plot size (radius, or length x width) 10m			
5.	Valeriana capitata			FAC	% Cover of Wetland Bryophytes			
6.	Equisetum fluviatile			OBL	(Where applicable)			
7.					% Bare Ground			
		0			Total Cover of Bryophytes			
		0						
8.								
8. 9.		0			Hydrophytic			
8. 9.		0 57		: 11.4	Hydrophytic Vegetation Present? Yes • No •			

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SOIL Sampling Point: SW13_T165_04

		he depth ne	eeded to docur	ment the indicator or co	onfirm the ab		ators)		
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5			100					Hemic Organics	
5-18	5GY	4/1	100					Sandy Clay Loam	
18-20		4/2	100					Sandy Loam	
¹Type: C=Co	ncentration. D=	Depletion		red Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
Histosol o	r Histel (A1)			Alaska Color Ch	hange (TA	4)		์ Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue	L	Other (Explain in Remark	s)
Thick Dark	k Surface (A12)			3 On - Indicator of	. In all nombre			· · · · · · · · · · · · · · · · · · ·	J. J
✓ Alaska Gle				and an appropriat				nary indicator of wetland h	ydrology,
Alaska Re				⁴ Give details of co		•	•		
	eyed Pores (A15)		- GIVE details or a	JIOI CHAINS	e III Neman	.5		
Restrictive Laye	er (if present): dy clay loam							Hydric Soil Present?	? Yes ● No ○
Depth (incl								nyunc son Fresenc	, ies C No C
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						_Secondary Indic	cators (two or more are required)
Primary Indica	ators (any one is	sufficient	t)					Water Stair	ned Leaves (B9)
Surface Water (A1)				Inundation V		_		_	atterns (B10)
	High Water Table (A2)					ncave Surfac	ce (B8)		nizospheres along Living Roots (C3)
	Saturation (A3)				s (B15)				f Reduced Iron (C4)
Water Ma	rks (B1) : Deposits (B2)			☐ Hydrogen Sulfide Odor (C1)☐ Dry-Season Water Table (C2)				Salt Deposi	
Sediment Drift Depo	☐ Dry-Season \					Stressed Plants (D1) c Position (D2)			
	or Crust (B4)			□ Uther (Expiai	IN IN Kema	irks)		✓ Shallow Aq	` ,
Iron Depo									raphic Relief (D4)
I — ·	ioil Cracks (B6)							✓ FAC-neutra	
Field Observa							T	-	(-,
Surface Wate		Yes C	No ●	Depth (inche	es):				
Water Table F	Present?	Yes C	No 💿	Depth (inche	<u>-</u> s):		Wetla	nd Hydrology Present	t? Yes 💿 No 🔾
Saturation Pre		Yes •	No O	Depth (inche	•				
(includes capi Describe Recor				ell, aerial photos, pre		ection) if ava	ailable:		
Remarks:									

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