WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 06-Aug-13			
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T160_03					
	gator(s): CTS, AMD	side, terrac	ce, hummocks etc.): Flat					
-	elief (concave, convex, none): flat		7 ° Elevation: 678					
	ion: Interior Alaska Mountains		 63.370690942		Long.: -148.820902586 Datum: WGS84			
_	p Unit Name:	Lat	03.370090942		NWI classification: PSS1B			
	natic/hydrologic conditions on the site typical for this tir		n Von	No ○	(If no, explain in Remarks.)			
Are V	egetation 🗌 , Soil 🔲 , or Hydrology 🔲 s	significantly naturally pr	/ disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No ○ eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes ● No ○)						
	Hydric Soil Present? Yes ● No ○)		Is the Sampled Area				
	Wetland Hydrology Present? Yes ● No ○)	within a Wetland? Yes ● No ○					
Rema	arks:							
	TATION -Use scientific names of plants. Lis	st all spe Absolute Cover	cies in the Dominant Species?		Dominance Test worksheet: Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:			
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species3 x 1 =3			
1.	Salix richardsonii	30	✓	FACW	FACW Species 42 x 2 = 84			
2.	Salix reticulata	35	✓	FAC	FAC Species <u>117</u> x 3 = <u>351</u>			
3.	Vaccinium uliginosum	60	✓	FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>			
4.	Vaccinium vitis-idaea	_1_		FAC	UPL Species			
5.	Dasiphora fruticosa	15		FAC	Column Totals: <u>162.1</u> (A) <u>438.4</u> (B)			
6.	Salix pulchra	2		FACW	Prevalence Index = B/A = 2.705			
7.	Salix alaxensis	_1_		FAC	Prevalence index – B/A – 2.705			
8.		0			Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.					Prevalence Index is ≤3.0			
Herl	Total Cover: b Stratum 50% of Total Cover:			28.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	Carex aquatilis	3	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Calamagrostis canadensis	3	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Parnassia palustris	1		FACW	be present, unless disturbed or problematic.			
4.	Carex membranacea	2		FACW	Plot size (radius, or length x width)			
5.	Rumex arcticus			FAC	% Cover of Wetland Bryophytes			
6.	Carex seirneidea	$\frac{1}{0.1}$		FACU FACU	(Where applicable)			
	Carex scirpoidea			1 ACU	% Bare Ground			
					Total Cover of Bryophytes 80			
		0			Hidranbidia			
10.			Hydrophytic Vegetation					
	50% of Total Cover:g		of Total Cover:	3.62	Present? Yes No			
Rem	arks: Lichen – 1							
Rema	arks: Lichen = 1				<u>'</u>			

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SOIL Sampling Point: SW13 T160 03

Profile Descrip	tion: (Describe to th		eded to docur	nent the inc				ators)				
Depth (inches)		latrix		2 · l - u /uu		ox Featu		• 2	Texture	Remarks		
0-2	Color (mois	st)	<u>%</u> 100	Color (m	ioist)	_%_	Type ¹	_Loc_ ²	Organic hemic	Remarks		
		2/1		7 FVD	1/6	15			Silt Loam	V Chair		
2-13		3/1	85	7.5YR	4/6	15	C	PL		Very fibric		
13-16		3/2	100						Sand			
						-						
						-						
¹Type: C=Co	ncentration. D=I	Depletion.	RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil 1	Indicators:			Indicate	ors for Pro	blematic	: Hydric So	oils: ³				
	or Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)				ka Alpine sv		-		Underlying Layer	de 31 of Redder		
	Sulfide (A4)				ka Redox W				Other (Explain in Remark	s)		
	k Surface (A12)											
	eyed (A13)								nary indicator of wetland h	ydrology,		
	edox (A14)			and an	appropriate	e ianoscap	e position r	nust be pre	esent			
Alaska Gl	eyed Pores (A15))		4 Give d	letails of co	lor change	e in Remark	S				
Postrictivo I av	er (if present):											
'	loam, active laye	٥٢							Hydric Soil Present	? Yes ● No ○		
		EI							nyunc son Present	i les 🔾 No 🔾		
Depth (inches): 2, 16												
Remarks:												
HYDROLC)GY											
Wetland Hyd	lrology Indicat	ors:								cators (two or more are required)		
	ators (any one is	sufficient)							ned Leaves (B9)		
	Water (A1)			∐ Int	undation Vis	sible on A	erial Image	ry (B7)		atterns (B10)		
	ter Table (A2)			∐ Sp	arsely Vege	tated Con	cave Surfac	ce (B8)	_			
✓ Saturatio	` ,				ırl Deposits	. ,			Presence of Reduced Iron (C4)			
☐ Water Ma				∐ Ну	drogen Sulf	ide Odor	(C1)		☐ Salt Depos	its (C5)		
Sedimen	t Deposits (B2)			U Dr	y-Season W	ater Table	e (C2)			Stressed Plants (D1)		
Drift Dep	osits (B3)			☐ Ot	her (Explair	in Rema	rks)			ic Position (D2)		
	t or Crust (B4)								✓ Shallow Aq	• • •		
Iron Dep	osits (B5)									raphic Relief (D4)		
☐ Surface S	Soil Cracks (B6)							1	✓ FAC-neutra	l Test (D5)		
Field Observ	ations:											
Surface Wate	er Present?		No 💿	De	epth (inches	s):						
Water Table	Present?	Yes 🔾	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pr		Yes 💿	No O	De	epth (inches	:\• 13						
(includes cap	illary fringe)		110		pur (menes	.,. 15						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Domarka												
Remarks:												

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