WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borou	ugh/City:	Denali Bo	rough Sampling Date: 31-Jul-13			
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T147_08			
	igator(s): CTS, AMD		Lan	dform (hills	side, terrac	e, hummocks etc.): Flat			
_ocal i	relief (concave, convex, none): flat		Slo	Slope: 2.0 % / 1.1 ° Elevation: 660					
Subreg	gion : Interior Alaska Mountains	Lat	 ∷: 63.3	 372		Long.: -148.94789 Datum: WGS84			
	ap Unit Name:	_				NWI classification: PSS1B			
Are \	matic/hydrologic conditions on the site typical for the second sec	significa	antly dis y proble	sturbed? ematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes nded, explain any answers in Remarks.) s, transects, important features, etc.			
Rem	Hydric Soil Present? Yes ● I	No () No () No ()			the Sam thin a W	pled Area etland? Yes No			
/EGE	ETATION - Use scientific names of plant	s. List all s	specie	s in the p	olot.				
	'	Absolu				Dominance Test worksheet:			
Tre	ee Stratum	% Cov		ominant Species?	Status	Number of Dominant Species			
1.			0			That are OBL, FACW, or FAC: 4 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	Total C		0			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	bling/Shrub Stratum 50% of Total Cover	0	OBL Species x 1 =						
1.	Salix pulchra	-	75	✓	FACW	FACW Species x 2 =154			
2.	Vaccinium uliginosum		60	✓	FAC	FAC Species <u>69</u> x 3 = <u>207</u>			
3.	Salix barclayi		4		FAC	FACU Species <u>0</u> x 4 = <u>0</u>			
4.	Salix richardsonii		2		FACW	UPL Species0 x 5 =0			
5.			0			Column Totals: <u>156</u> (A) <u>371</u> (B)			
6.			0			Prevalence Index = B/A = 2.378			
7.			0						
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			Dominance Test is > 50%			
10.	Total C		0			✓ Prevalence Index is ≤3.0			
Her	rb Stratum 50% of Total Cover				28.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
			10	V	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
1.	Carex aquatilis			\checkmark	FAC	1 Indicators of hydric soil and watland hydrology must			
1. 2.	Carex aquatilis Calamagrostis canadensis		0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. 2.	Calamagrostis canadensis		0			be present, unless disturbed or problematic.			
1. 2. 3. 4. 5.	Calamagrostis canadensis		0		<u> </u>	be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes			
1. 2. 3. 4. 5.	Calamagrostis canadensis		0			be present, unless disturbed or problematic. Plot size (radius, or length x width)			
1. 2. 3. 4. 5. 6. 7.	Calamagrostis canadensis		0 0 0			be present, unless disturbed or problematic. Plot size (radius, or length x width)			
1. 2. 3. 4. 5. 6. 7. 8.	Calamagrostis canadensis		0 0 0 0			be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Calamagrostis canadensis		0 0 0 0			be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes 10			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Calamagrostis canadensis		0 0 0 0 0			be present, unless disturbed or problematic. Plot size (radius, or length x width)			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Calamagrostis canadensis		0 0 0 0 0 0	and a Cover:	3	be present, unless disturbed or problematic. Plot size (radius, or length x width)			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13 T147 08

JUIL									Samping	Point: 3W13_1147_06
Profile Descripti	on: (Describe to t		eded to docum	ent the inc				ators)		
Depth	Matrix				Redox F		Features			
(inches)	Color (mo	ist)	%	Color (n	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-3			100						Fibric Organics	
3-14	5Y	3/1	80	10YR	4/4	20		PL	Silty Clay Loam	
						-				
¹Type: C=Cor	centration. D=	Depletion	RM=Reduce	d Matrix	² Location	: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	: Hydric So	oils: ³		
Histosol or	Histel (A1)			Alas	ka Color Ch	ange (TA4	4 })		Alaska Gleyed Without Hu	e 5Y or Redder
Histic Epip	. ,				ka Alpine sv		-	_	Underlying Layer	
=	Sulfide (A4)				ka Redox W				Other (Explain in Remarks	5)
_ ' '	, ,					2.5				•
	Surface (A12)			³ One in	ndicator of I	nydrophyti	ic vegetatio	n, one prim	nary indicator of wetland hy	drology,
Alaska Gle				and an	appropriate	e landscap	e position r	nust be pre	esent	
✓ Alaska Red	. ,	.,		4 Give	letails of co	lor change	e in Remark	s		
☐ Alaska Gle	yed Pores (A15) ————————————————————————————————————		0		.0. 0090				
Restrictive Laye	er (if present):									
Type: silty	clay loam, acti	ve layer							Hydric Soil Present?	Yes No
Depth (inch		,							•	
Damarka										
Remarks:										
HYDROLO	GY									
Wetland Hydi		tors:							Secondary Indica	ators (two or more are required)
Primary Indica			.)							ed Leaves (B9)
Surface W		o samelem	.,	Пты	ındətion Vir	sible on A	orial Imaga	a. (P7)		atterns (B10)
	er Table (A2)				undation Vis				_	izospheres along Living Roots (C3)
Saturation	, ,				arsely Vege		cave Surrac	ce (B8)		, , ,
	` ,				arl Deposits	` '				Reduced Iron (C4)
Water Ma					drogen Sulf		. ,		☐ Salt Deposit	
	Deposits (B2)				y-Season W					Stressed Plants (D1)
☐ Drift Depo				∐ Ot	her (Explair	in Remar	rks)		✓ Geomorphic	
Algal Mat	or Crust (B4)								✓ Shallow Aqu	
Iron Depo	sits (B5)								Microtopogr	raphic Relief (D4)
Surface So	oil Cracks (B6)								✓ FAC-neutral	Test (D5)
Field Observa	itions:									
Surface Water	Present?	Yes C	No 💿	De	epth (inches	s):				
Water Table P	recent?	Yes (No O	D.	nth (inches	١. 12		Wetlar	nd Hydrology Present	? Yes • No O
				De	epth (inches	5): 12		Wettai	na rryarology r resent	.: 1es 🔾 110 🔾
Saturation Pre (includes capil		Yes 🖲	No 🔾	De	epth (inches	s): 9				
			monitor wall	porial n	hotos provi	ious inspo	ction) if our	vilabler		
Describe Recor	ded Data (Strea	am gauge,	monitor well,	аепаі р	notos, previ	ious inspe	ction) ir ava	illable:		
_										
Remarks:										

U.S. Army Corps of Engineers Alaska Version 2.0