WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Denali Bo	orough Sampling Date: 05-Aug-13			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T201_01			
Investigator(s): SLI EAC		Landform (hillside, terrace, hummocks etc.): Kettle					
Local relief (concave, convex, none): concave				° Elevation: 679			
Subregion : Interior Alaska Mountains	Lat.:	63.366568923		Long.: -148.933636069 Datum: WGS84			
Soil Map Unit Name:		00.0000000020		NWI classification: PEM1F			
Are climatic/hydrologic conditions on the site typical for this ti	significantly naturally p	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.)			
Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present? Yes ● No C		ls '	the Sam	pled Area			
Wetland Hydrology Present? Yes ● No ○		within a Wetland? Yes ● No ○					
Remarks: hgwsl (hgwfs?). fairly steep upland fnwws dow							
VEGETATION - Use scientific names of plants. L			plot.	Dominance Test worksheet: Number of Dominant Species			
1	0			That are OBL, FACW, or FAC: (A)			
2.	0			Total Number of Dominant Species Across All Strata: 2 (B)			
3.				Percent of dominant Species			
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	0			Prevalence Index worksheet:			
Total Cover	r: <u> </u>			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =			
1	0			FACW Species 0 x 2 = 0			
2.				FAC Species			
3.	_			FACU Species0 x 4 =0			
4.	^			UPL Species <u>0</u> x 5 = <u>0</u>			
5.	0			Column Totals:70 (A)70 (B)			
6	0						
7	0			Prevalence Index = B/A = 1.000			
8	0			Hydrophytic Vegetation Indicators:			
9				✓ Dominance Test is > 50%			
10	0			✓ Prevalence Index is ≤3.0			
Total Cover: 50% of Total Cover:		6 of Total Cover	0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Comarum palustre	10		OBL	Problematic Hydrophytic Vegetation (Explain)			
Carex aquatilis		✓	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3. Eriophorum angustifolium		_	OBL	be present, unless disturbed or problematic.			
4				Plot size (radius, or length x width)			
5				% Cover of Wetland Bryophytes			
6				(Where applicable)			
7				% Bare Ground			
8.				Total Cover of Bryophytes60			
9. 10.				Hadan bada			
IO				Hydrophytic			
Total Cover	: 70			Vegetation Present? Yes ● No ○			

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Redox Features

Sampling Point: SW13_T201_01

Profile Descripti	•	ne depth nee l atrix	ded to docur	nent the indicator or con Red	ifirm the ab		ators)		
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
				-				-	
					-				
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnnel. M=Matrix	
Hydric Soil I				Indicators for Pro					
_i	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ie 5V or Pedder
Histic Epip	` ,			Alaska Alpine sv		•		Underlying Layer	de 31 of Redder
	Sulfide (A4)			Alaska Redox W		-		Other (Explain in Remark	s)
	` '			Alaska Redox W	/IUI 2.51 I	iuc		· · · · · · · · · · · · · · · · ·	-,
Alaska Gle	Surface (A12)			³ One indicator of	hydrophyt	ic vegetatio	n, one prir	nary indicator of wetland h	ydrology,
				and an appropriate	e landscap	e position r	nust be pro	esent	
☐ Alaska Red	• ,			4 Give details of co	lor chang	e in Remark	S		
	yed Pores (A15)							
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes ● No O
Depth (inch	nes):								
HYDROLO	GY								
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one is	sufficient)						Water Stair	ned Leaves (B9)
✓ Surface W	/ater (A1)			Inundation Vi	sible on A	erial Imagei	ry (B7)	Drainage P	atterns (B10)
High Wate	er Table (A2)			Sparsely Vege	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	n (A3)			☐ Marl Deposits	(B15)			Presence o	f Reduced Iron (C4)
Water Ma	rks (B1)			✓ Hydrogen Sul	fide Odor	(C1)		Salt Depos	its (C5)
Sediment	Deposits (B2)			Dry-Season W	Vater Tabl	e (C2)		☐ Stunted or	Stressed Plants (D1)
☐ Drift Depo	` ,			Other (Explain	n in Rema	rks)			c Position (D2)
	or Crust (B4)							Shallow Aq	
Iron Depo								_	raphic Relief (D4)
Surface S	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)
Field Observa	ations:								
Surface Water	Present?		No O	Depth (inches	s): 16				
Water Table P	resent?	Yes \bigcirc	No 💿	Depth (inches	s):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pre (includes capi		$_{Yes} \bigcirc$	No •	Depth (inches	s):				
Describe Recor	ded Data (strea	m gauge,	monitor we	l, aerial photos, prev	ious inspe	ection) if ava	ilable:		
Remarks:									
cannot walk to	center of comm	nunity - kne	ee deep wa	ter above soft organi	cs about :	L5ft from bo	undary.		

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