WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City	Denali Bo	rough Sampling Date:	08-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: S	W13_T170_06			
nvest	igator(s): WAD, RWM		Landform (h	nillside, terrac	e, hummocks etc.): Hillside				
	relief (concave, convex, none): planar		Slope:	% / 10.8					
Subre	gion : Interior Alaska Mountains	l at ·	- · <u></u>						
	ap Unit Name:	_	00.4201001	320					
	· -		o V-	s • No O	NWI classification: Uplan	α			
Are \	matic/hydrologic conditions on the site typical for the second of the se	significan naturally	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ded, explain any answers in Remarks.; transects important features)			
		No O			,				
	() p, : - g	√o	ı	s the Sam	pled Area				
	.,		,	within a Wetland? Yes ○ No ●					
Dam	Wetland Hydrology Present? Yes O 1 arks: bluegrass meadow on mid mountain slope.	No 💿	ļ						
/EGI	ETATION - Use scientific names of plant			•	Dominance Test worksheet:				
Tre	ee Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species				
1.		0			That are OBL, FACW, or FAC:	(A)			
2.					Total Number of Dominant Species Across All Strata:	3 (B)			
3.						(D)			
4.		•			Percent of dominant Species That Are OBL, FACW, or FAC:	66.7% (A/B)			
5.		0			B				
	Total C		_		Prevalence Index worksheet: Total % Cover of: Multiply	, by			
Sai	oling/Shrub Stratum 50% of Total Covers		– % of Total Cov	er: 0		•			
	· - 3, · · · · · · · · · · · · · · · · · · ·				OBL Species 0.1 $\times 1 =$ FACW Species 3 $\times 2 =$				
1.	Vaccinium uliginosum		_ =	FAC		6			
2.	Spiraea stevenii			FACU		<u>204</u>			
3.	Empetrum nigrum		_	FAC		52			
4.	Salix pulchra			FACW	UPL Species <u>10</u> x 5 =	50			
5.			-		Column Totals: <u>94.1</u> (A)	312.1(B)			
6.			-		Prevalence Index = B/A =	3.317			
7.			-			0.017			
8.		0	-		Hydrophytic Vegetation Indicators:				
9.		0	-		✓ Dominance Test is > 50%				
10.			_		Prevalence Index is ≤3.0				
He	Total C r b Stratum 50% of Total Cover		_ 0% of Total Cov	rer:4.8	Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)	supporting data in			
1.	Calamagrostis canadensis	40	✓	FAC	Problematic Hydrophytic Vegetation	¹ (Explain)			
2.	Chamaenerion angustifolium			FACU	¹ Indicators of hydric soil and wetland hyd	rology must			
3.	Aruncus dioicus			UPL	be present, unless disturbed or problemate	tic.			
4.	Equisetum sylvaticum			FAC	Diet size (redius, or length y width)				
5.	Mertensia paniculata			FACU	Plot size (radius, or length x width)	_10m			
6.	Polemonium acutiflorum			FAC	% Cover of Wetland Bryophytes (Where applicable)				
7.	Festuca altaica	1		FAC	% Bare Ground				
8.	Artemisia tilesii	1		FACU	Total Cover of Bryophytes	5			
9.	Carex Ioliacea	0.1		OBL					
10.	Cornus suecica	5		FAC	Hydrophytic				
1	Total C	over: 70.1	_		Vegetation				
		Present? Yes No							

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SOIL Sampling Point: SW13_T170_06

		the depth nee	ded to docum	ument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2	Color (IIIo	ist)	100	Coloi (illoist)		Туре	LUC	Fibric Organics	Noa		
2-5			100					Sapric Organics			
5-16	10YR	3/2	100		_			Coarse Sand			
	1011		100					Course sund			
-											
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	d Matrix ² Locatio				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblematio	c Hydric So	oils: ³				
☐ Histosol or Histel (A1) ☐ Alaska Color Change (TA4)						4) ⁴		Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y F	lue		Other (Explain in Remark	s)		
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one prin	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropria					ydrology,		
Alaska Red	dox (A14) eyed Pores (A15	5)		4 Give details of o	olor change	e in Remark	s				
Restrictive Laye		-,									
Type:	er (ii present).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							riyaric Son r resent	i ics o No o		
Remarks:	•										
no hydric soil ir	idicators obser	vea									
HYDROLO	GY										
Wetland Hydi		tors:						Secondary Indic	cators (two or more are required)		
-	tors (any one i								ned Leaves (B9)		
☐ Surface W	/ater (A1)			☐ Inundation \	isible on A	erial Imager	y (B7)	☐ Drainage P	atterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	e (B8)	Oxidized RI	nizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposit	, ,				f Reduced Iron (C4)		
Water Ma				Hydrogen Su				Salt Deposi			
	Deposits (B2)			☐ Dry-Season					Stressed Plants (D1)		
☐ Drift Depo	. ,			U Other (Expla	in in Rema	rks)			c Position (D2)		
☐ Algai Mat	or Crust (B4)							☐ Shallow Aq	uitard (D3) raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa	• • • • • • • • • • • • • • • • • • • •							TAC ficula	1 1030 (03)		
Surface Water		Yes \bigcirc	No 💿	Depth (inche	es):						
Water Table P	Present?	Yes 〇	No 💿	Depth (inche	,		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre					,		1100.0.				
(includes capi	llary fringe)	Yes O		Depth (inche							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no hydrology indicators observed											

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