WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	ı	Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T170_04			
Investi	gator(s): WAD, RWM		Landform (hillside, terrace, hummocks etc.): Toeslope					
Local	relief (concave, convex, none): concave		Slope: 14.0) % / 8.0	0 ° Elevation: 820			
Subre	gion : Interior Alaska Mountains	Lat ·	63.42176222	 R	Long.: -148.653116107 Datum: WGS84			
		Lut	03.421702220	<u> </u>				
	ap Unit Name:		2 V	No ○	NWI classification: PSS1B			
Are \	matic/hydrologic conditions on the site typical for this for /egetation	significant naturally p wing sar	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes No Ceded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No		le	the Sam	inled Δrea			
	Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No	\mathcal{I}	W	itiiiii a vv	retiality 165 and a			
Ren	narks: Willow graminoid toeslope							
	· ,							
VEGI	ETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cover	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.					Total Number of Dominant			
2.		0	- 📙		Species Across All Strata:			
3.		0	- 📙		Percent of dominant Species			
4.			-		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	- 📙		Prevalence Index worksheet:			
	Total Cove		_		Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover	:0	OBL Species 2 x 1 = 2			
1.	Picea glauca	4		FACU	FACW Species <u>55</u> x 2 = <u>110</u>			
2.	Salix pulchra	45	✓	FACW	FAC Species <u>72</u> x 3 = <u>216</u>			
3.	Salix richardsonii	5		FACW	FACU Species 11 x 4 = 44			
4.	Betula glandulosa	2	_	FAC	UPL Species			
5.	Salix reticulata	5		FAC	Column Totals: <u>140</u> (A) <u>372</u> (B)			
6.	Vaccinium uliginosum	5 2	_ 📙	FAC				
7.	Dasiphora fruticosa	2	. 📮	FAC	Prevalence Index = B/A =			
8.		0	- 📙		Hydrophytic Vegetation Indicators:			
9.		0	- 📙		✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Hei	Total Cove rb Stratum 50% of Total Cover: _		_ % of Total Cove	r: <u>13.6</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis	10	. 📮	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Chamerion angustifolium	2		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus		- 📙	FACW	be present, unless disturbed or problematic.			
4.	Equisetum arvense	_		FAC	Plot size (radius, or length x width) 10m			
5.	Polemonium acutiflorum		-	FAC	% Cover of Wetland Bryophytes			
6.	Cornus canadensis	3	-	FACU	(Where applicable)			
7.	Rumex arcticus		-	FAC	% Bare Ground			
8.	Anemone richardsonii		-	FAC	Total Cover of Bryophytes 10			
9.	Mertensia paniculata	2	-	FACU				
10.	Comarum palustre		OBL		Hydrophytic			
	Total Cove		_		Vegetation Present? Yes ● No ○			
	50% of Total Cover:	36 209	% of Total Cover	: 14.4	Present? Yes No			

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SOIL Sampling Point: SW13_T170_04

		ne depth needed to	document the indicator or co	onfirm the ab		cators)					
Depth (inches)	Color (mois		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	COIOI (IIIOI	100	Color (moise)		1700	LUC	Fibric Organics				
3-6		100					Hemic Organics				
-											
6-11							Sapric Organics				
¹Type: C=Cor	ncentration. D=	Depletion. RM=F	Reduced Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix				
Hydric Soil I	ndicators:		Indicators for P	roblemati	c Hydric S	oils: ³					
Histosol or	r Histel (A1)		Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epip	edon (A2)		Alaska Alpine	swales (TA	5)		Underlying Layer				
Hydrogen	Sulfide (A4)		Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remarks)				
☐ Thick Dark	Surface (A12)		•								
Alaska Gle	eyed (A13)		One indicator of and an appropria				nary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)				•		COCIT				
Alaska Gle	eyed Pores (A15)	⁴ Give details of o	color chang	e in Remark	ks					
Restrictive Laye	er (if present):										
Type:							Hydric Soil Present	? Yes ● No O			
Depth (inch	nes):										
HYDROLO											
	rology Indicat						Secondary Indic	cators (two or more are required)			
Primary Indica	tors (any one is	sufficient)					Water Stair	ned Leaves (B9)			
Surface W	. ,		Inundation \	isible on A	erial Image	ery (B7)		atterns (B10)			
✓ High Wate	` ,		Sparsely Ve		ncave Surfa	ce (B8)		nizospheres along Living Roots (C3)			
✓ Saturation	. ,		Marl Deposit	s (B15)				f Reduced Iron (C4)			
Water Ma			☐ Hydrogen Si				Salt Deposi				
	Deposits (B2)		☐ Dry-Season					Stressed Plants (D1)			
☐ Drift Depo			Other (Expla	iin in Rema	rks)			c Position (D2)			
	or Crust (B4)						Shallow Aq				
☐ Iron Depo	. ,							raphic Relief (D4)			
	oil Cracks (B6)						✓ FAC-neutra	i Test (D5)			
Field Observa Surface Water		Yes O No	Donth (inch	oc).							
			' '	25):							
Water Table P		Yes No	Depth (inch	es): 11		Wetla	nd Hydrology Presen	t? Yes • No 🔾			
Saturation Pre (includes capi		Yes • No	O Depth (inch	es): 0							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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