WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12	
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_16	
nvestig	gator(s): SLI, EKJ	e, hummocks etc.): Hillside				
Local r	elief (concave, convex, none): hummocky		Slope:	% / 13.		
Subrea	ion : Southcentral Alaska	l at ·	62.78337319		Long.: -148.811554076 Datum: NAD83	
_	p Unit Name:	710	NWI classification: Upland			
			0 Voc	s • No O		
Are V	natic/hydrologic conditions on the site typical for regetation , Soil , or Hydrology regetation , Soil , or Hydrology	significan	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ided, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ided, explain any answers in Remarks.)	
	Hydrophytic Vegetation Present? Yes O	No O	le	the Sam	pled Area	
	Hydric Soil Present? Yes	ithin a W				
Rema	Wetland Hydrology Present? Yes	No 💿	, v	/ILIIIII a VV	etialid! 165 % NO 9	
	ETATION -Use scientific names of plan	Absolute	e Dominant	Indicator	Dominance Test worksheet:	
	e Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)	
	Picea glauca	2	_	FACU	Total Number of Dominant	
2.					Species Across All Strata: 2 (B)	
3.			- —		Percent of dominant Species	
4.			- =		That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.	Total	<u> </u>	_		Prevalence Index worksheet:	
		Cover:2 r:120 ^o		r: 0.4	Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Cove	1 20	% of Total Cove	r: <u>0.4</u>	OBL Species 0 x 1 = 0	
1.	Vaccinium uliginosum	60		FAC	FACW Species 10 x 2 = 20	
	Betula nana		- —	FAC	FACUS paging 122 x 3 = 366	
3.	Betula glandulosa			FAC	FACU Species 10 x 4 = 40	
4.	Rhododendron tomentosum		-	FACW	UPL Species <u>0</u> x 5 = <u>0</u>	
5.	Vaccinium vitis-idaea		_	FAC	Column Totals: <u>142</u> (A) <u>426</u> (E	
6.	Empetrum nigrum		- 📙	FAC	Prevalence Index = B/A = 3.000	
	Spiraea stevenii		-	FACU		
	Picea glauca		-	FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%	
4.0			-		✓ Prevalence Index is ≤ 3.0	
10.	Total	Cover: 137				
Her	b Stratum 50% of Total Cove			er: 27.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
	Calamagrostis canadensis	2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
	Spinulum annotinum			FACU	¹ Indicators of hydric soil and wetland hydrology must	
		0	- =		be present, unless disturbed or problematic.	
4.		0	- =		Plot size (radius, or length x width)	
		•			% Cover of Wetland Bryophytes	
			- =		(Where applicable)	
			- =		% Bare Ground2	
			-		Total Cover of Bryophytes 95	
. (1		_	-			
		U			Hydrophytic	
	Total				Vegetation	
		Cover: 3	_	r: <u>0.6</u>	Vegetation Present? Yes No O	

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SOIL Sampling Point: SW12_T29_16

		the depth need	ded to docum	ocument the indicator or confirm the absence of indicators) Redox Features					
Depth (inches)	Color (moi	ist)	<u></u> %	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
				GOIGI (IIIOISE)		.,,,,			
-					-				
-	-								
¹Type: C=Co	ncentration. D=	Depletion. F	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr		4	oils:		
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	1)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	•	,		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue Uther (Explain in Remarks)					
Thick Darl	c Surface (A12)			30	b d b i				d de
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland hesent	lydrology,
Alaska Re	dox (A14)					·	•		
Alaska Gle	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	S		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes ○ No •
Depth (incl	nes):								
no hydric soil ir	ndicators observ	ved. miscom	nmunication	between veg and e	environmer	nt observers	, soil profile	e not recorded in trimble.	
HYDROLO	CV								
HYDROLO Wetland Hyd		toroi						Canadam, Indi	
-	itors (any one i								cators (two or more are required) ned Leaves (B9)
Surface V		3 Summercine)		☐ Inundation V	icible on A	orial Imago	ov (B7)		Patterns (B10)
	er Table (A2)			Sparsely Veg		_		_	hizospheres along Living Roots (C3)
Saturation				☐ Marl Deposits		icave Suriac	.e (bb)		of Reduced Iron (C4)
☐ Water Ma	. ,			Hydrogen Su	. ,	(C1)		Salt Depos	` '
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)
Drift Depo				Other (Explai					ic Position (D2)
	or Crust (B4)				iii iii ixeiiia	113)			juitard (D3)
☐ Iron Depo									graphic Relief (D4)
	oil Cracks (B6)								Il Test (D5)
Field Observa									
Surface Wate		Yes 🔾	No 💿	Depth (inche	ic).				
		Yes O		, ,	,		Matle	ad Hadualama Duasam	t? Yes ○ No •
Water Table F				Depth (inche	s):		wetiar	nd Hydrology Presen	t? Yes O No 🖲
Saturation Pro (includes capi		Yes O	No 💿	Depth (inche	s):				
Describe Recor	ded Data (strea	am gauge, n	nonitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:		
Remarks:									
soils moist but	not saturated.								

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