WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:22-Jun-12				
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T25_08				
	igator(s): JGK		Landform (hil	lside, terrac	ee, hummocks etc.): Hillside				
Local	relief (concave, convex, none): hummocky		Slope:		0 ° Elevation: 552				
Subre	gion : Southcentral Alaska	l at ·	62.79783826		Long.: -149.245905731 Datum: NAD83				
		Lut	02.19103020	<u> </u>					
	ap Unit Name:		0 V	No ○	NWI classification: Upland				
Are '	matic/hydrologic conditions on the site typical for this '/egetation , Soil , or Hydrology , Soil , or Hydrology . MARY OF FINDINGS - Attach site map sho	significant	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes O No	•							
	Hydric Soil Present? Yes O No	•		Is the Sampled Area					
	Wetland Hydrology Present? Yes O No	•	w	ithin a W	etland? Yes ○ No •				
Rem	arks:								
VE 0	TATION								
/EG	ETATION -Use scientific names of plants. I	ıst all sp	ecies in the	plot.	Dominance Test worksheet:				
-	- Church	Absolute % Cove		Indicator Status	Number of Dominant Species				
_	e Stratum Picea glauca	<u>96 Cove</u> 8		FACU	That are OBL, FACW, or FAC: 2 (A)				
2.			- 📙	1700	Total Number of Dominant				
3.					Species Across All Strata: 4 (B)				
4.			- =		Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)				
5.			- =						
	Total Cove		-		Prevalence Index worksheet: Total % Cover of: Multiply by:				
Sa	oling/Shrub Stratum 50% of Total Cover:		= % of Total Cover	:1.6	0.00				
	Alnus viridis			FAC	FACW Species 0 x 2 = 0 FAC Species 96 x 3 = 288				
	Viburnum edule		- 📙	FACU	FACU Species 36 x 4 = 144				
3. 4.	Linnaea borealis		-	FACU	UPL Species 0 x 5 = 0				
5.			-						
6.		_	- 📙		Column Totals: <u>132</u> (A) <u>432</u> (B)				
7.		0	- 🗒		Prevalence Index = B/A = 3.273				
8.			- 🗒		Hydrophytic Vegetation Indicators:				
9.		_	-		Dominance Test is > 50%				
10.		0	- 🗀		☐ Prevalence Index is ≤3.0				
	Total Cove rb Stratum 50% of Total Cover: _				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Calamagrostis canadensis	40		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Lyganadium alayatum			FACU	Indicators of hydric soil and wetland hydrology must				
3.	Trientalis europaea		_	FACU	be present, unless disturbed or problematic.				
4.	Rubus pedatus			FAC	District of all and booth and the				
5.	Sanguisorba menziesii	- 1		FAC	Plot size (radius, or length x width) 10m				
6.					% Cover of Wetland Bryophytes (Where applicable)				
					% Bare Ground				
					Total Cover of Bryophytes 15				
a		_ 0							
٥.		0			Hydrophytic				
					1				
	Total Cove 50% of Total Cover:		_	:14.2	Vegetation Present? Yes ○ No ●				

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SOIL Sampling Point: SW12_T25_08

Profile Descripti	· · · /Describe to	'' - Janth nao	1 d to documo	· the disaston on or	e the about	·f indicat		Samping	
		the depth nee Matrix	ded to docume	nt the indicator or co	onfirm the absen dox Feature		ors)		
Depth (inches)	Color (mo		%	Color (moist)		Type ¹	_Loc_2	Texture	Remarks
0-7	COIOI (IIIO	stj	<u> </u>	LOIOF (IIIUISC)	<u> 70</u> _	Туре	LUC	Fibric Organics	
7-12		2/2	80					Silty Clay	2007 sub and rocks 1-2in
									20% sub ang rocks 1-2in
12-14	10YR	2/2	40					Silty Clay	60% largge cobbles >4in
								-	
¹Type: C=Cor	ncentration. D=	Depletion. I	RM=Reduced	Matrix ² Locatio	n: PL=Pore L	Lining. RC=	Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for P	roblematic F	Hvdric Soil	ls: ³		
	r Histel (A1)			Alaska Color C	4			Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	` '		Ī	Alaska Alpine s				Underlying Layer	de 51 of Redder
	Sulfide (A4)		[Alaska Redox		e		Other (Explain in Remark	(S)
l — ' - '	Surface (A12)			_					
Alaska Gle								nary indicator of wetland h	ıydrology,
Alaska Red				and an appropria	te landscape	position mu	ust be pre	esent	
	eyed Pores (A15	j)		4 Give details of o	olor change in	n Remarks			
Restrictive Laye									
Type:	er (ii bieseiir).							Hydric Soil Present	? Yes ○ No •
Depth (inch	٠۵٥).							nyaric son Fresent	f tes U NU U
, ,	ies).								
Remarks:									
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:							
_	itors (any one i							Secondary Indi	cators (two or more are required)
Surface W	Vater (A1)								cators (two or more are required) ned Leaves (B9)
				Inundation \	/isible on Aeria	al Imagery	· (B7)	Water Stai	
☐ High Wate	er Table (A2)				/isible on Aeria			Water Stai Drainage F	ned Leaves (B9)
High Wate					getated Conca			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10)
	n (A3)			Sparsely Veg	getated Conca	ave Surface		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Saturation Water Ma	n (A3)			Sparsely Veg Marl Deposit Hydrogen Su	getated Conca cs (B15)	ave Surface		Water Stai Drainage F Oxidized R Presence o Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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