WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydro	oelectric Project	I	Borough/City:	Matanusk	sa-Susitna Borough Sampling Date: 05-Aug-13		
Applica	nt/Owner: Alaska Energy Au	ıthority				Sampling Point: SW13_T100_05		
nvesti	gator(s): BAB			Landform (hillside, terrace, hummocks etc.): Lowland				
_ocal r	elief (concave, convex, none):	hummocky		Slope: 0.0 % / 0.0 ° Elevation: 789				
Subreg	ion : Copper River Basin		Lat.:	62.6209488977 Long.: -147.410975313 Datum: WGS84				
Soil Ma	p Unit Name:					NWI classification: PSS1/4B		
Are V Are V		, or Hydrology , or Hydrology tach site map sho	significant naturally p wing sar	ly disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No		
	Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? arks:	Yes No Yes No Yes No			the Sam thin a W	pled Area /etland? Yes ● No ○		
/EGE	TATION - Use scientific	names of plants. L	ist all sp			Dominance Test worksheet:		
Tre	Stratum		% Cover		Status	Number of Dominant Species		
1.	Picea mariana		20	_	FACW	That are OBL, FACW, or FAC: 7 (A)		
2.			0			Total Number of Dominant Species Across All Strata: 7 (B)		
3.			^			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC:100.0% (A/B)		
5.		Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum	50% of Total Cover:	10 20%	6 of Total Cover:	4	OBL Species x 1 =		
1.	Picea mariana		10	_	FACW	FACW Species 64.2 x 2 = 128.4		
2.	Salix pulchra		8	_	FACW	FAC Species <u>58</u> x 3 = <u>174</u>		
3.	Salix glauca		1		FAC	FACU Species 0 x 4 = 0		
4.	Vaccinium uliginosum			. 🔽	FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.	Vaccinium vitis-idaea		5		FAC	Column Totals: <u>122.2</u> (A) <u>302.4</u> (B)		
6.	Ledum groenlandicum		1	. 📙	FAC	Prevalence Index = B/A = 2.475		
	Betula nana			- V	FAC			
	Ledum decumbens			. 🔻	FACW	Hydrophytic Vegetation Indicators:		
	Arctostaphylos rubra		$-\frac{1}{0}$		FAC	✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0		
10.		Total Cover		. —				
Her	b Stratum_	50% of Total Cover:			: 12.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii		25		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Petasites frigidus		1	. 📙	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Eriophorum vaginatum		0.1	. 📙	FACW	be present, unless disturbed or problematic.		
4.	Pedicularis labradorica			. 📙	FACW	Plot size (radius, or length x width) _3m		
5.			_		FACW	% Cover of Wetland Bryophytes		
6.				. 📙		(Where applicable)		
				. 📙		% Bare Ground		
				. 📙		Total Cover of Bryophytes		
1 111		Total Cover			Hydrophytic Vegetation			
10.								
10.		50% of Total Cover:			8.24	Present? Yes No		

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SOIL Sampling Point: SW13_T100_05

Profile Descripti	ion: (Describe to the	he depth nee	ded to docume	ent the in		nfirm the abs		ators)				
(inches)	Color (moi	st)	%	Color (n	noist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3			100						Fibric Organics			
3-16	5Y	4/1	85	10YR	4/4	15		PL	Clay	strong		
-		<u> </u>										
-												
¹Type: C=Cor	ncentration. D=	Depletion.					_		annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	oblematio	C Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder								
Histic Epir	pedon (A2)			Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ska Redox W	√ith 2.5Y F	łue	L	Other (Explain in Remark	s)		
☐ Thick Darl	k Surface (A12)			20								
Alaska Gle	eyed (A13)						ic vegetation be position n		mary indicator of wetland h esent	ydrology,		
✓ Alaska Red	dox (A14)						•		CSCITC			
	eyed Pores (A15)		4 Give	details of co	olor change	e in Remark	S				
Restrictive Laye												
Type: clay									Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 3											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:							Secondary India	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)							Water Stained Leaves (B9)			
Surface W	Vater (A1)			☐ Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposits (B15)						f Reduced Iron (C4)		
Water Ma		Hydrogen Sulfide Odor (C1)					Salt Depos	its (C5)				
Sediment		Dry-Season Water Table (C2)						Stressed Plants (D1)				
	Drift Deposits (B3)					n in Rema	rks)		:	ic Position (D2)		
	or Crust (B4)								✓ Shallow Aq	` '		
Iron Depo	• ,									raphic Relief (D4)		
Surface S	ioil Cracks (B6)							1	✓ FAC-neutra	l Test (D5)		
Field Observa												
Surface Water	r Present?		No 💿	De	epth (inche	s):						
Water Table P	Present?	Yes 🔾	No 🕑	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capi		Yes •	No O	De	epth (inches	s): 3						
Describe Recor	rded Data (strea	m gauge, r	nonitor well,	, aerial p	hotos, prev	ious inspe	ction) if ava	nilable:				
Remarks:												

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