WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T323_01
	gator(s): BAB		Landform (hill	side, terrac	ee, hummocks etc.): Bench
	elief (concave, convex, none): concave		Slope: 3.5		
	ion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
_		Lat			
	p Unit Name:			<u> </u>	NWI classification: PEM1/SS1E
Are V	egetation , Soil , or Hydrology , or Hydrology , or Hydrology	significant naturally p wing sar	ly disturbed? roblematic?	(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 ● No C)	_		
	Hydric Soil Present? Yes ● No C)			pled Area
	Wetland Hydrology Present? Yes No)	W	ithin a W	/etland? Yes ● No ○
Rema	rks: Picgla on western portion of wetland are standing	dead. Th	ere is water flo	wing throu	gh the wetland
	TATION -Use scientific names of plants. Li	st all spo	Dominant		Dominance Test worksheet: Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:4 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 4 (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.		0			
	Total Cover		_		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	- 6 of Total Cover:	0	001.0
			_		OBL Species 41 x 1 = 41 FACW Species 11 x 2 = 22
	Dasiphora fruticosa	30	✓	FAC	FAC Species 57 x 3 = 171
	Vaccinium uliginosum			FAC	FACU Species 10 x 4 = 40
	Picea glauca	_		FACU FAC	UPL Species 0 x 5 = 0
5.	Betula glandulosa Andromeda polifolia			FACW	
6.	0-15			FACW	Column Totals: <u>119</u> (A) <u>274</u> (B)
	Salix ruscescens Salix pulchra	2		FACW	Prevalence Index = B/A = 2.303
	Vaccinium oxycoccos	1		OBL	Hydrophytic Vegetation Indicators:
9.	Vaccinium expecces	0			Dominance Test is > 50%
10.		0		OBL	✓ Prevalence Index is ≤3.0
	Total Cover	60			Morphological Adaptations (Provide supporting data in
Her	b Stratum 50% of Total Cover:	30 20	% of Total Cover	: 12	Remarks or on a separate sheet)
1.	Trichophorum caespitosum	_20	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Eriophorum angustifolium	15	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Festuca altaica	10		FAC	be present, unless disturbed or problematic.
4.	Comarum palustre			OBL	Plot size (radius, or length x width)
5.	Swertia perennis	2		FACW	% Cover of Wetland Bryophytes
6.	Arctagrostis latifolia			FACW	(Where applicable)
7.	Equisetum sylvaticum			FAC	% Bare Ground
8.	Carex Ioliacea			OBL	Total Cover of Bryophytes
9.	Cornus canadensis			FACU	
10.	Viola palustris	1		FACW	Hydrophytic
	Total Cover : 50% of Total Cover:		6 of Total Cover:	110	Vegetation Present? Yes ● No ○
		23.3 207	on rotal cover:	11.8	1
Rem	arks: 1% sanguisorba canadensis				

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SOIL Sampling Point: SW15_T323_01

Profile Description: (Describe	to the depth r Matrix	eeded to docu		onfirm the absender		ators)		
Depth (inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4							Peat	
4-13							Mucky Peat	
13-20 2.5Y	3/3	100					Sandy Loam	
	- 3,5							
¹ Type: C=Concentration.	D=Depletior	n. RM=Reduc			_		annel. M=Matrix	
Hydric Soil Indicators:			Indicators for P	roblematic	Hydric So	oils: ³		
Histosol or Histel (A1)			Alaska Color C	hange (TA4))		Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine				Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y Hu	ue		Other (Explain in Remark	s)
Thick Dark Surface (A	12)		3 One indicator of	f hydronhytid	c vegetatio	n one prin	mary indicator of wetland h	vdrology
Alaska Gleyed (A13)			and an appropria					ydrology,
☐ Alaska Redox (A14) ☐ Alaska Gleyed Pores (A	A15)		⁴ Give details of o	color change	in Remark	S		
Restrictive Layer (if presen	٠,							
Type:	.,.						Hydric Soil Present	? Yes ● No ○
Depth (inches):							riyane son Fresent	165 0 110 0
Remarks:								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Ind	cators:						_Secondary Indic	cators (two or more are required)
Wetland Hydrology Ind Primary Indicators (any or		nt)						cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indi Primary Indicators (any or Surface Water (A1)	e is sufficier	nt)	☐ Inundation \		_		Water Stair Drainage P	ned Leaves (B9) atterns (B10)
Wetland Hydrology Ind Primary Indicators (any or ✓ Surface Water (A1) ✓ High Water Table (A2)	e is sufficier	nt)	Sparsely Veg	getated Cond	_		Water Stair Drainage P Oxidized RI	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3)
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