WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	Borough/City:	Matanuska-S	usitna Borough	_ Sampling Date	: <u>19-Aug-15</u>
Applicant/Owner: Alaska Energy Authority				Sampl	ing Point:	SW15_T316_08
Investigator(s): WAD, SCB		Landform (hill	side, terrace, h	ummocks etc.):	Footslope	
Local relief (concave, convex, none): hummocky		Slope:	%/°	Elevation:	-	
Subregion : Cook Inlet Mountains	Lat.:		Lc	ong.:		Datum: WGS84
Soil Map Unit Name:				NWI class	sification: PSS1	IB
	significantly	? Yes y disturbed? roblematic?	Are "Norm	(If no, explain i nal Circumstances I, explain any ansv	" present? Ye	es • No () .)
SUMMARY OF FINDINGS - Attach site map sho	wing sam	npling point	locations, ti	ansects, impo	rtant features	s, etc.
Hydrophytic Vegetation Present? Yes No	_	ls	the Sample	ed Area		

Hydric Soil Present?	Yes 🔍	No \bigcirc		
Wetland Hydrology Present?	Yes 🖲	No \bigcirc	within a Wetland?	Yes
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

		Δ	bsolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		o Cover	Species?	Status	Number of Dominant Species
1.	Picea mariana		20	\checkmark	FACW	That are OBL, FACW, or FAC: <u>8</u> (A)
2.			0			Total Number of Dominant Species Across All Strata: 8 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC:100.0%(A/B)
5.			0			Prevalence Index worksheet:
	Total Co	ver:	20			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	10	20%	of Total Cover:	4	OBL Species $0 \times 1 = 0$
1	Betula nana		15	\checkmark	FAC	FACW Species 56.1 x 2 = 112.2
2.	Phododendron tomentosum		15		FACW	FAC Species 47 x 3 = 141
3.	Diogo moriono		10		FACW	FACU Species $0 x 4 = 0$
4.			10		FAC	UPL Species $0 \times 5 = 0$
5.	Vaccinium uliginosum		10		FAC	Column Totals: 103.1 (A) 253.2 (B)
6.	Vaccinium vitis-idaea		5		FAC	
7.	Salix pulchra		1		FACW	Prevalence Index = B/A = 2.456
8.	Salix fuscescens		0.1		FACW	Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
			0		FACW	✓ Prevalence Index is ≤3.0
	Total Co	ver:	66.1			Morphological Adaptations (Provide supporting data in
Her	b Stratum 50% of Total Cover:	33.0	05 20%	of Total Cover	13.22	Remarks or on a separate sheet)
1.	Rubus chamaemorus		10	\checkmark	FACW	Problematic Hydrophytic Vegetation (Explain)
2.	Carex bigelowii		5	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense		2		FAC	be present, unless disturbed or problematic.
4.			0			Plot size (radius, or length x width) 5m
	- 		0			Plot size (radius, or length x width) <u>_5m</u> % Cover of Wetland Bryophytes
			0			(Where applicable)
			0			% Bare Ground
						Total Cover of Bryophytes
			0			
			0			Hydrophytic
	Total Co	ver:	17			Vegetation
	50% of Total Cover:			of Total Cover:	3.4	Present? Yes \bullet No \bigcirc
Rem	arks: black spruce woodland adjacent to pond (s	ee plot	t SW15_	T316_V02 for	pond).	

Nonandi Didek spruce woodiand dujacent to pond (see plot Sw15_1510_v02 for

 \bullet No \bigcirc

(inches) Color (r	noist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-13		100					Peat	
13-16		100					Mucky Peat	-
	,						-	_
				_				
								-
				_				
						-		_
							-	
Type: C=Concentration.	D=Depletion.	RM=Reduced	Matrix ² Locatic	n: PL=Pore	Lining, R(=Root Cha	nnel. M=Matrix	
	5 5 0p		indicators for P		-			
dric Soil Indicators:		د ٦			4	oils:	Alizatian Classed Without L	
Histosol or Histel (A1)		Ľ	Alaska Color C Alaska Alpine		-	L	Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
Histic Epipedon (A2) Hydrogen Sulfide (A4)		[Alaska Alpine	•	,		Other (Explain in Remar	ks)
Thick Dark Surface (A4)		-		With 2131	uc			
Alaska Gleyed (A13)			³ One indicator o	f hydrophyti	c vegetatio	on, one prir	nary indicator of wetland	hydrology,
Alaska Redox (A14)			and an appropria	ite landscap	e position	must be pro	esent	
Alaska Gleyed Pores (A	415)		⁴ Give details of o	color change	e in Remarl	ks		
trictive Layer (if present								
	·)•							<u> </u>
Type:							Hydric Soil Present	17 Yes 🔍 No 🔾
Type: Depth (inches):							Hydric Soil Present	t? Yes 🖲 No 🔿
Depth (inches):							Hydric Soil Present	t? Yes • No ()
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Depth (inches): narks: DROLOGY tland Hydrology Indi mary Indicators (any on] Surface Water (A1)	e is sufficient))			-		Secondary Ind	<u>icators (two or more are required)</u> ined Leaves (B9) Patterns (B10)
Depth (inches): marks: DROLOGY etland Hydrology Indi mary Indicators (any on Surface Water (A1) High Water Table (A2	e is sufficient)	<u> </u>	Sparsely Ve	getated Con	-		Secondary Ind	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C:
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Remarks:

D1--stunted picea. D2--footslope. D4--hummocks.