WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 11-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T139_10
	gator(s): WAD, BAB		Landform (hil	lside, terrac	ce, hummocks etc.): Hillside
-	elief (concave, convex, none): flat		Slope: 26.7		P
	ion : Southcentral Alaska	l at ·	62.81782996		Long.: -149.624039173 Datum: WGS84
_	p Unit Name:	-	02.01702990	<i>I</i>	NWI classification: Upland
			-0 Voo	● No ○	
Are Vo	egetation , Soil , or Hydrology	significantly naturally pr wing san	y disturbed? roblematic?	Are "N (If nee	Normal Circumstances" present? Yes No eded, explain any answers in Remarks.)
	, , , , , , , , , , , , , , , , , , ,		Is	the Sam	pled Area
	, u o o			ithin a W	
	Wetland Hydrology Present? Yes ○ No ●)			
	arks: Steep south facing slope next to peatland comp				Dominance Test worksheet:
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.	Betula papyrifera var. kenaica	35	✓	UPL	Total Number of Dominant
	Picea glauca	20	✓	FACU	Species Across All Strata: 6 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 33.3% (A/B)
5.		0			Prevalence Index worksheet:
	Total Covers				Total % Cover of: Multiply by:
Sapl	ling/Shrub Stratum 50% of Total Cover:	<u>27.5</u> 20%	of Total Cover	:11	OBL Species x 1 =0
1.	Spiraea stevenii	20	✓	FACU	FACW Species <u>5</u> x 2 = <u>10</u>
2.	Rubus pubescens			FACW	FAC Species
3.	Alnus viridis ssp. sinuata			FAC	FACU Species 69 x 4 = 276
4.	Picea glauca	2		FACU	UPL Species <u>35</u> x 5 = <u>175</u>
5.	Sorbus scopulina			FACU	Column Totals: <u>184</u> (A) <u>686</u> (B)
6.					Prevalence Index = B/A = 3.728
7.					
8.		0			Hydrophytic Vegetation Indicators:
9.		0			☐ Dominance Test is > 50%
10.					☐ Prevalence Index is ≤3.0
Herl	Total Cover: b Stratum 50% of Total Cover:		_	r: <u>6.6</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Athyrium filix-femina	35	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Gymnocarpium dryopteris		✓	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Equisetum sylvaticum			FAC	be present, unless disturbed of problematic.
4.	Cornus suecica	<u>10</u> 5		FAC	Plot size (radius, or length x width)
5.	Dryopteris expansa Equisetum arvense	5		FACU FAC	% Cover of Wetland Bryophytes
6.	Calamagrostis canadensis			FAC	(Where applicable)
7. 8.	Chamerion angustifolium	4		FACU	% Bare Ground
	Spinulum appatinum			FACU	Total Cover of Bryophytes
10.	Эришин анношин				Hydrophytic
10.	Total Cover:	96	_		Hydrophytic Vegetation
			of Total Cover	:19.2	Present? Yes No •
Rema	arks				
Kem	arks:				

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SOIL Sampling Point: SW13 T139 10

0-3 3-6 10Y 6-12 12-15 10Y Type: C=Concentration Hydric Soil Indicator Histosol or Histel (A Histic Epipedon (A2 Hydrogen Sulfide (A) Thick Dark Surface Alaska Gleyed (A13 Alaska Redox (A14) Alaska Gleyed Pore estrictive Layer (if present type: Depth (inches): emarks: o restrictive layer obsetrimary or secondary we	4/3 1. D=Depletion 1. L) 4) A12) (A15) ent):	: soil indicators	Indicat Alas Alas Alas 3 One i and an 4 Give o	2 Location tors for Proska Color Cheska Alpine suska Redox Windicator of appropriate details of co	ange (TA4) wales (TA5) whith 2.5Y Hu hydrophytic e landscape	Hydric So 4)) ue c vegetation e position m in Remarks	n, one prin	Alaska Gleyed Without Underlying Layer Other (Explain in Remanary indicator of wetland esent Hydric Soil Presen	hydrology,
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YDROLOGY	diantowa.							Consider Too	Part of the second of the seco
/etland Hydrology I rimary Indicators (any		nt)							dicators (two or more are required)
	Jile is sufficiel	it)			-: - ^-		(DZ)		ained Leaves (B9)
Surface Water (A1	(2)			nundation Vi		_			Patterns (B10)
High Water Table (Saturation (A3)	،۷)			parsely Vege		cave Surfac	e (B8)		Rhizospheres along Living Roots (Co of Reduced Iron (C4)
_ ` ′				arl Deposits		O4.)			` '
Water Marks (B1)	(D2)			ydrogen Sul	•	•		☐ Salt Depo	
Sediment Deposits	B2)			ry-Season W					or Stressed Plants (D1)
Drift Deposits (B3)	D.43		<u></u> ∪ 01	ther (Explain	n in Remarl	KS)			hic Position (D2)
Algal Mat or Crust	34)								Aquitard (D3)
Iron Deposits (B5)	(DC)								ographic Relief (D4)
Surface Soil Cracks	(80)							☐ FAC-neuti	ral Test (D5)
ield Observations:	Yes	O No ●			->-				
Surface Water Present			D	epth (inches	5):		_		
Water Table Present?	Yes	○ No •	D	epth (inches	s):		Wetla	nd Hydrology Prese	nt? Yes ○ No •
Saturation Present? includes capillary frinc	e) Yes	○ No ●	D	epth (inches	5):				
escribe Recorded Data	stream gauge	e, monitor wel	ll, aerial p	ohotos, prev	ious inspec	tion) if ava	ilable:		
emarks:									
o hydrology indicators	bserved								

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