WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric P	roject	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T210_02		
nvestigator(s): WAD, SCB		Landform (hil	lside, terrac	e, hummocks etc.): Hillside		
Local relief (concave, convex, none): hummo	ocky	 Slope: 14.0) % / 8.0	° Elevation:		
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
Soil Map Unit Name:				NWI classification: Upland		
Are climatic/hydrologic conditions on the site typ	ical for this time of vo	or? Voc	● No ○	(If no, explain in Remarks.)		
Are Vegetation , Soil , or Hydro Are Vegetation , Soil , or Hydro Are Vegetation , Soil , or Hydro SUMMARY OF FINDINGS - Attach site	ology Significan	tly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes	s • No O					
Hydric Soil Present? Yes	s O No 💿			npled Area		
Wetland Hydrology Present? Yes	s O No 💿	W	ithin a W	etland? Yes ○ No ●		
Remarks:						
VEGETATION - Use scientific names o	f plants. List all sp Absolut % Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1. Picea mariana	35	✓	FACW	That are OBL, FACW, or FAC: 3 (A)		
2.	0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.				Percent of dominant Species		
4.	0			That Are OBL, FACW, or FAC:100.0% (A/B		
5	0	_		Prevalence Index worksheet:		
	Total Cover: 35	_		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Tot	al Cover: <u>17.5</u> 20	% of Total Cover	:7	OBL Species0 x 1 =0		
Picea mariana	5		FACW	FACW Species <u>45</u> x 2 = <u>90</u>		
2. Betula nana	20	✓	FAC	FAC Species <u>81</u> x 3 = <u>243</u>		
Vaccinium uliginosum	30	✓	FAC	FACU Species0 x 4 =0		
4. Vaccinium vitis-idaea	15	. 📙	FAC	UPL Species 0 x 5 = 0		
5. Empetrum nigrum			FAC	Column Totals: <u>126</u> (A) <u>333</u> (
6. Rhododendron tomentosum	5		FACW	Prevalence Index = B/A =2.643_		
7		- 片				
8		-		Hydrophytic Vegetation Indicators:		
9.		-		Dominance Test is > 50%		
10.		- 🗀		✓ Prevalence Index is ≤3.0		
Herb Stratum 50% of To	Total Cover: 90 tal Cover: 45 20		r: 18	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
Equisetum sylvaticum			FAC	Problematic Hydrophytic Vegetation (Explain)		
2.		-		¹ Indicators of hydric soil and wetland hydrology must		
3.				be present, unless disturbed or problematic.		
4.	•			Diet size (vadius ex length v		
5.				Plot size (radius, or length x width)		
6	0			(Where applicable)		
7	0			% Bare Ground		
8		-		Total Cover of Bryophytes		
9		-				
10		_		Hydrophytic		
E00/ of Tot	Total Cover: <u>1</u> al Cover: <u>0.5</u> 20		. 03	Vegetation Present? Yes ● No ○		
Remarks: open-canopy black spruce with er						

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SOIL Sampling Point: SW15_T210_02

Depth (inches)	I	Matrix	eeded to docu	ment the inc	licator or con Red	ox Featu		ators)		
	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-5										fibric organics
5-7									-	hemic organics
7-10	10YR	2/1	100						Loamy Sand	contains rounded cobbles
10-16	10YR	4/3	95	10YR	3/3	5			Sandy Loam	
		-1/3 -		10110					Sandy Louin	-
¹Type: C=Con	centration. D	=Depletion	. RM=Reduc	ed Matrix	² Location	: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil In	ndicators:			Indicate	ors for Pro	blematic	Hydric So	oils:		
Histosol or	Histel (A1)			Alasł	ka Color Ch	ange (TA4	4)		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipe	edon (A2)			Alasł	ka Alpine sv	vales (TA5)	_	Underlying Layer	
Hydrogen 9	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	ue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12)								
Alaska Gley	yed (A13)				ndicator of l appropriate				mary indicator of wetland lesent	hydrology,
Alaska Red	lox (A14)					•	•	•		
Alaska Gley	yed Pores (A1	5)		4 Give o	letails of co	lor change	ın Remark	is .		
Restrictive Laye	er (if present):									
Type:									Hydric Soil Present	:? Yes O No 💿
Depth (inch	ies):									
HYDROLOG										
Wetland Hydr	ology Indica									icators (two or more are required)
Wetland Hydro	rology Indicators (any one		t)						Water Sta	ined Leaves (B9)
Wetland Hydrony Indicat Surface Wa	rology Indica tors (any one ater (A1)		t)		undation Vi		_		Water Sta	ined Leaves (B9) Patterns (B10)
Wetland Hydroprimary Indicat Surface World High Wate	rology Indica tors (any one 'ater (A1) er Table (A2)		t)	☐ Sp	arsely Vege	etated Con	_		Water Sta Drainage I Oxidized R	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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