## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:29-Aug-15							
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T341_10							
nvestigator(s): AFW Landform (hillside, terrace, hummocks etc.): Hillside												
_ocal r	relief (concave, convex, none): hummocky		Slope: 5.2	% / 3.0	° Elevation:							
Subrec	gion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84							
	ap Unit Name:				NWI classification: Upland							
	matic/hydrologic conditions on the site typical for this tin	oo of vo	or? Ves	● No ○	(If no, explain in Remarks.)							
		•	ntly disturbed?		ormal Circumstances" present? Yes  No							
		-	problematic?		ded, explain any answers in Remarks.)							
		-		·								
SUMI	MARY OF FINDINGS - Attach site map show	ing sa	ampling point	locations	s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes   No												
	Hydric Soil Present? Yes ○ No ●				pled Area							
	Wetland Hydrology Present? Yes ○ No ●		w	ithin a W	Vetland? Yes ○ No ⊙							
Remarks:												
/EGE	<b>ETATION</b> -Use scientific names of plants. Lis	t all s	pecies in the	plot.								
		Absolu	te Dominant	Indicator	Dominance Test worksheet:							
Tre	e Stratum	% Cov		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.					That are OBL, FACW, or FAC:3(A)  Total Number of Dominant							
2.			_		Species Across All Strata:3 (B)							
3.			_ 🗆		Percent of dominant Species							
4.		_	_ 📙		That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.			_		Prevalence Index worksheet:							
	Total Cover:	0	_		Total % Cover of: Multiply by:							
Sap	lling/Shrub Stratum 50% of Total Cover:	0 20	0% of Total Cover:	:0	OBL Species <u>0</u> x 1 = <u>0</u>							
1.	Betula glandulosa	70	<b>✓</b>	FAC	FACW Species 23 x 2 = 46							
2.	Vaccinium uliginosum	45	✓	FAC	FAC Species <u>147.1</u> x 3 = <u>441.3</u>							
3.	Rhododendron tomentosum	20		FACW	FACU Species 0 x 4 = 0							
4.	Vaccinium vitis-idaea	15		FAC	UPL Species 0 x 5 = 0							
5.	Empetrum nigrum	7	_	FAC	Column Totals: <u>170.1</u> (A) <u>487.3</u> (B)							
6.	Salix pulchra	3		FACW	Prevalence Index = B/A =2.865_							
7.		0	-									
8.		0	-		Hydrophytic Vegetation Indicators:							
		0	-		✓ Dominance Test is > 50%							
10.	Total Cover:	_	_		✓ Prevalence Index is ≤3.0							
Her	b Stratum 50% of Total Cover:		<u>)                                    </u>	r: 32	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
	Festuca altaica	10	<b>~</b>	FAC	Problematic Hydrophytic Vegetation (Explain)							
	Carex bigelowii	0.1		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
3.		0			be present, unless disturbed or problematic.							
		0			Diet size (vadius ex length y width)							
		^			(Where applicable)							
7.		0	_ 🖳		% Bare Ground <u>55</u>							
8.		0	_		Total Cover of Bryophytes 40							
9.		0										
10.		0			Hydrophytic							
	Total Cover:			. 262	Vegetation Present? Yes  No							
	50% of lotal Cover:5.	.05 20	U% OF LOTAL COVER	2.02	rieschit: its = no =							
3. 4. 5. 6. 7. 8. 9.		0 0 0 0 0 0 0 0			be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m    % Cover of Wetland Bryophytes (Where applicable)    % Bare Ground 55    Total Cover of Bryophytes 40							

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SOIL Sampling Point: SW15\_T341\_10

Profile Descript	ion: (Describe to	the depth ne	eded to docui	ment the inc	dicator or con	firm the ab	sence of indic	ators)		10mc. 51115_1541_15	
		Matrix	sucu io acca.	Hent ure me		ox Featu		.duis,			
Depth (inches)	Color (mo	ist)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2			100						hemic organics		
2-7	10YR	3/4	90	7.5YR	3/3	10		M	Sandy Loam		
7-19	5Y	4/2	100			-			Sandy Loam		
					-	-		-			
Type: C=Cor	ncentration. D=		RM=Reduc	ed Matrix	<sup>2</sup> Location:	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil I	ndicators			Indicat	ors for Pro	hlematic	r Hydric So	nils: <sup>3</sup>			
	r Histel (A1)				ka Color Cha		4	J.1.3.	Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epip	. ,				ka Alpine sw		-	_	Underlying Layer	ic 51 of reduct	
	Sulfide (A4)				ka Redox W				Other (Explain in Remark	s)	
	c Surface (A12)	)		_							
Alaska Gle	eyed (A13)				ndicator of happropriate				mary indicator of wetland hy	ydrology,	
Alaska Red	dox (A14)					·	•	•			
Alaska Gle	eyed Pores (A1	5)		Give c	letails of col	ior change	е іп кетагк	(S			
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present?	? Yes ○ No •	
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:							Secondary Indic	cators (two or more are required)	
	itors (any one i	s sufficient	)						Water Stair	ned Leaves (B9)	
Surface W	Vater (A1)			In	undation Vis	sible on A	erial Image	ry (B7)	Drainage P	atterns (B10)	
	High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)						nizospheres along Living Roots (C3)	
Saturation (A3)			Marl Deposits (B15)						f Reduced Iron (C4)		
Water Marks (B1)			Hydrogen Sulfide Odor (C1)					☐ Salt Deposi			
Sediment Deposits (B2)				☐ Dry-Season Water Table (C2)						Stressed Plants (D1)	
☐ Drift Depo	. ,			U Other (Explain in Remarks)					_	c Position (D2)	
	or Crust (B4)								☐ Shallow Aq		
Iron Depo										raphic Relief (D4)	
	oil Cracks (B6)								☐ FAC-neutra	Test (D5)	
Field Observa		Voc C	No ●	D	the /inches	٧.					
Surface Water					epth (inches	-		***-*1-	· · · · · · · · · · · · · · · · · · ·	·- · · · · · · ·	
Water Table F			No 💿	De	epth (inches	s):		Wetia	nd Hydrology Present	t? Yes O No 💿	
Saturation Pre (includes capi		Yes O	No •	De	epth (inches	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Down advan											
Remarks:	J.,										
no wetland hyd	arology indicate	ors									

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