## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T330_01
nvestigator(s): AFW		Landform (hill	lside, terrac	e, hummocks etc.): Valley bottom
Local relief (concave, convex, none): tussocks		Slope: 0.0	% / 0.0	° Elevation:
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:	Lut			NWI classification: PSS1/EM1B
· -		0 V	● No ○	<del></del>
Are Vegetation , Soil , or Hydrology results.	significant naturally p wing sar	ly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.) s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No   No		le	the Sam	pled Area
Hydric Soil Present? Yes   No   No			ithin a W	-
Wetland Hydrology Present? Yes ● No C	)	W	itmin a vv	etiand? Tes © No ©
Remarks:				
VEGETATION - Use scientific names of plants. Li  Tree Stratum	st all sp	Dominant	plot.  Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1.	70 COVCI			That are OBL, FACW, or FAC: 4 (A)
2			-	Total Number of Dominant
3		Ä		Species Across All Strata: 4 (B)
4.				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				Burnels of Tadaman data at
Total Cover:	:	_		Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 209	6 of Total Cover	:0	OBL Species 3 x 1 = 3
	20	<b>✓</b>	FAC	FACW Species 53 x 2 = 106
Betula nana     Rhododendron tomentosum		<u>v</u>	FACIN	FAC Species 45 x 3 = 135
2 Empetrum nigrum			FACW FAC	FACU Species 3 x 4 = 12
A Manainium vitia idaaa			FAC	UPL Species 0 x 5 = 0
vaccinium vitis-idaea     Vaccinium uliginosum		П	FAC	· — — — — — — — — — — — — — — — — — — —
Andromeda polifolia(IAM)	3		OBL	Column Totals: <u>104</u> (A) <u>256</u> (B)
7. Arctous alpinus	3		FACU	Prevalence Index = B/A = 2.462
8. Salix fuscescens	1		FACW	Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10.	0			✓ Prevalence Index is ≤3.0
Total Cover:  Herb Stratum 50% of Total Cover:		- % of Total Cove	r: 12.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Eriophorum vaginatum	_20	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation (Explain)
Carex membranacea	10	<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Rubus chamaemorus			FACW	be present, unless disturbed or problematic.
4. Carex bigelowii	5		FAC	Plot size (radius, or length x width)
5. Petasites frigidus	2		FACW	Plot size (radius, or length x width) 10m   % Cover of Wetland Bryophytes
6	0			(Where applicable)
7				% Bare Ground 40
8	_			Total Cover of Bryophytes
9				
10.				Hydrophytic
<b>Total Cover:</b> 50% of Total Cover:		- 4 of Total Cover	: 8.4	Vegetation Present? Yes ● No ○
	<u> </u>	o or rotal Cover	· <u>8.4</u>	
Remarks:				

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SOIL Sampling Point: SW15\_T330\_01

(inches) Color	(moist)	%	Color (n	noist)	%	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks
0-2		100						Peat	_
2-11		30						Mucky Peat	
10YR	3/3	35	10YR	4/4	35		М	Silt Loam	silt loam matrices cryoturbated into mu peat.
					-		-	-	
Type: C=Concentration	. D=Depletion	ı. RM=Reduc					_	nnel. M=Matrix	
ydric Soil Indicators				ors for Pro		4	oils: <sup>3</sup>	1	
Histosol or Histel (A	)			ka Color Ch		-		Alaska Gleyed Without F Underlying Layer	lue 5Y or Redder
Histic Epipedon (A2)				ka Alpine sv ka Redox W	•	,		Other (Explain in Remar	ke)
☐ Hydrogen Sulfide (A	•		∟ AldS	ka Reuox W	/IUI 2.51 F	iue		Outer (Explain in Remai	10)
<ul><li>☐ Thick Dark Surface (</li><li>☐ Alaska Gleyed (A13)</li></ul>	412)							nary indicator of wetland	hydrology,
Alaska Redox (A14)			and an	appropriate	e landscap	e position i	must be pre	esent	
Alaska Gleyed Pores	(A15)		4 Give	details of co	lor change	e in Remark	(S		
strictive Layer (if prese	nt):								
Timei	-							Hydric Soil Present	t? Yes 💿 No 🔾
Type:								rryaric bon r resen	
Depth (inches):								Trydric Son Fresen	
* *								Tryune son Tresen	
Depth (inches): emarks:	organic cont	ent to qualify	as an ord	anic soil ar	nd thus me	eets A2 rea	uirements	Tryane son i resen	
Depth (inches):	organic conto	ent to qualify	as an org	anic soil, ar	nd thus me	eets A2 req	uirements.	Tryunc son i resen	
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Depth (inches): emarks:	organic conto	ent to qualify	as an org	anic soil, ar	nd thus ma	eets A2 req	uirements.	Tryunc son i resen	
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Depth (inches): emarks: 11in layer has sufficient  YDROLOGY  Tetland Hydrology In rimary Indicators (any or	licators:							_Secondary Ind	
Pepth (inches): emarks: 11in layer has sufficient  YDROLOGY  Yetland Hydrology In rimary Indicators (any of Surface Water (A1)	licators: ne is sufficier		In	anic soil, ar	sible on A	erial Image	ry (B7)	Secondary Ind	icators (two or more are required) ined Leaves (B9)
Pepth (inches): emarks: 11in layer has sufficient  YDROLOGY  Yetland Hydrology In rimary Indicators (any of the suffice Water (A1)  High Water Table (A)	licators: ne is sufficier		☐ In	undation Vi	sible on A	erial Image	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized I	icators (two or more are required) ined Leaves (B9) Patterns (B10)
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