## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Aug-15			
Applica	int/Owner: Alaska Energy Authority			-	Sampling Point: SW15_T306_02			
	gator(s): WAD, SCB		Landform (hill	side, terrac	e, hummocks etc.): drainage			
-	elief (concave, convex, none): concave		Slope: 0.0					
		Lat.:						
_	ion : Interior Alaska Mountains	Lai						
	p Unit Name:			<u> </u>	NWI classification: PEM1E			
Are V		significar naturally	ntly disturbed? problematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No C	)						
	Hydric Soil Present? Yes ● No C	)			pled Area			
	Wetland Hydrology Present? Yes   No C	)	w	ithin a W	/etland? Yes ◉ No ○			
	arks: Concave meadow surrounded by low upland ridge	es.	<u>.</u>					
	TATION -Use scientific names of plants. Li	st all s	te Dominant	plot.  Indicator Status	Dominance Test worksheet:  Number of Dominant Species			
1.	<u> </u>	_ /0 COV			That are OBL, FACW, or FAC:3(A)			
2.		-	-		Total Number of Dominant			
3.			-		Species Across All Strata:3(B)			
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			-		Burnella er Taden medek ett			
	Total Covers		_		Prevalence Index worksheet:  Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	 0% of Total Cover:	0	OBL Species : ####; x 1 = 51.4			
		15	<b>✓</b>	ODI	FACW Species 1.2 x 2 = 2.400			
	Myrica gale			OBL	FAC Species 9.1 x 3 = 27.30			
2. 3.	Betula nana Empetrum nigrum		-	FAC FAC	FACU Species 0.1 x 4 = 0.400			
	Vaccinium uliginogum			FAC	UPL Species 0 x 5 = 0			
5.	Andromeda polifolia(IAM)	1		OBL				
6.	Rhododendron tomentosum	1		FACW	Column Totals: <u>61.8</u> (A) <u>81.5</u> (B)			
	Vaccinium oxycoccos	0.1		OBL	Prevalence Index = B/A =1.319_			
	Picea glauca	0.1		FACU	Hydrophytic Vegetation Indicators:			
	Salix pulchra	0.1		FACW	Dominance Test is > 50%			
10.		0		FACU	✓ Prevalence Index is ≤3.0			
	Total Covers	26.3	_ 3		☐ Morphological Adaptations (Provide supporting data in			
Her	b Stratum 50% of Total Cover:			5.26	Remarks or on a separate sheet)			
1.	Eriophorum scheuchzeri	20	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation (Explain)			
2.	Carex aquatilis	10	✓	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Eriophorum angustifolium	5		OBL	be present, unless disturbed or problematic.			
4.	Spiranthes romanzoffiana	0.1		OBL	Plot size (radius, or length x width) 10m			
5.	Rubus chamaemorus	0.1		FACW	% Cover of Wetland Bryophytes			
6.	Tofieldia pusilla	0.1	<u> </u>	FAC	(Where applicable)			
	Carex limosa	0.1		OBL	% Bare Ground			
	Carex rotundata	0.1		OBL	Total Cover of Bryophytes			
			-					
10.		0			Hydrophytic			
				71	Vegetation   Present?   Yes ● No ○			
-								
Rem	Total Cover: 50% of Total Cover: _ 1  arks: wet sedge with mossy (sphagnum) hummocks	7.75 20	0% of Total Cover:					

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SOIL Sampling Point: SW15\_T306\_02

Depth (inches)  0-2  2-11	Color (moist)	%	Color (moist)	_%	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
2-11							Peat		
							Mucky Peat		
				_					
				_			-		
	hartian D. Danietia		- Makii. 21ii		Lining DC	Deet Che	and M. Matric		
	tration. D=Depletio				_		nnel. M=Matrix		
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils:						
Histosol or Histel (A1)			Alaska Color C		-		Alaska Gleyed Without Hue 5Y or Redder     Underlying Layer		
✓ Histic Epipedon (A2)			☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)						
☐ Hydrogen Sulfi ☐ Thirts I color	• ,		☐ Alaska Redox	With 2.5Y H	iue		Other (Explain in Keman	3)	
☐ Thick Dark Sur	, ,		<sup>3</sup> One indicator of	f hydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	ydrology,	
Alaska Gleyed Alaska Redox (			and an appropria	ite landscap	e position r	nust be pre	esent		
<ul><li>☐ Alaska Redox (</li><li>☐ Alaska Gleyed</li></ul>	,		4 Give details of o	color change	e in Remark	S			
	. ,								
estrictive Layer (if	present):							- " • " •	
Type: Depth (inches):							Hydric Soil Present	? Yes • No O	
elow 11 inches lar	ge cobbles								
YDROLOGY	•								
etland Hydrolo							Secondary Indi	cators (two or more are required)	
rimary Indicators	(any one is sufficie	nt)					Water Stai	ned Leaves (B9)	
Surface Water	(A1)		Inundation \	Visible on A	erial Imager	ry (B7)	Drainage F	Patterns (B10)	
✓ High Water Ta	able (A2)		Sparsely Veg	getated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3	•		Marl Deposit	. ,				f Reduced Iron (C4)	
Water Marks (			Hydrogen Sı	ulfide Odor	(C1)		Salt Depos		
Sediment Dep			Dry-Season					Stressed Plants (D1)	
Drift Deposits	. ,		U Other (Expla	ain in Remai	rks)			ic Position (D2)	
Algal Mat or C								juitard (D3)	
Iron Deposits	` '							graphic Relief (D4)	
Surface Soil C	. ,						✓ FAC-neutra	il Test (D5)	
<b>ield Observatio</b> Surface Water Pre		● No ○	Depth (inch	os). 3					
		No O		,					
Water Table Prese	_		Depth (inch	es): 1		wetiai	nd Hydrology Presen	t? Yes ● No O	
Saturation Present (includes capillary		● No ○	Depth (inch	es): 0					
escribe Recorded	Data (stream gaug	e, monitor well	, aerial photos, pre	evious inspe	ction) if ava	ailable:			
emarks:	ater. D4hummocl	c D2drainag							

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