WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: M	latanuska-Susitna Borough	Sampling Date:	02-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point:SW	/13_T138_05
Investigator(s): JER	Landform (hillside	e, terrace, hummocks etc.):	Floodplain	
Local relief (concave, convex, none): flat	Slope: 1.7 %	/ 1.0 ° Elevation: 858	}	
Subregion : Southcentral Alaska Lat.:	62.887603402	Long.: -149.106500	0864 Da	atum: WGS84
Soil Map Unit Name:		NWI classi	fication: PEM1E	
	ar? Yes () htly disturbed? problematic?	No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answ	present? Yes	• No ()
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point loo	cations, transects, impor	tant features, e	etc.

Hydrophytic Vegetation Present?Yes 	Is the Sampled Area within a Wetland? Yes ● No ○
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Remarks: wet meadow adjacent stream, probably flooded at least annually. additional photos of creek, water running through meadow from slope above.

VEGETATION - Use scientific names of plants. List all species in the plot.

		Absolut	e Dominant	Indicator	Dominance Test worksheet:	
Tree	e Stratum	% Cove		Status	Number of Dominant Species	
1.		0			That are OBL, FACW, or FAC: <u>6</u> (A)	
2.					Total Number of Dominant Species Across All Strata: 6 (B)	
3.						
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.						
5.	Total Cover:	-			Prevalence Index worksheet:	
-			_		Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>30</u> x 1 = <u>30</u>	
1.	Andromeda polifolia	10	\checkmark	FACW	FACW Species <u>18</u> x 2 = <u>36</u>	
2.	Salix fuscescens	Q	\checkmark	FACW	FAC Species <u>3</u> x 3 = <u>9</u>	
3.	Salix arctica			FACU	FACU Species <u>5</u> x 4 = <u>20</u>	
4.	Vaccinium uliginosum	-		FAC	UPL Species x 5 =	
_					Column Totals: <u>56</u> (A) <u>95</u> (B)	
					Prevalence Index = B/A = <u>1.696</u>	
					Hydrophytic Vegetation Indicators:	
			_		✓ Dominance Test is > 50%	
		0	_		✓ Prevalence Index is ≤3.0	
	Total Cover:	26	_			
Herb Stratum 50% of Total Cover: <u>13</u> 20% of Total Cover:			5.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex aquatilis	12		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Trichophorum caespitosum	г		OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Eriophorum angustifolium	E	\checkmark	OBL	be present, unless disturbed or problematic.	
4.	Carex limosa	5	\checkmark	OBL	Plot size (radius, or length x width) 10m	
5.	Carex chordorrhiza	3		OBL		
6.		0			% Cover of Wetland Bryophytes (Where applicable)	
					% Bare Ground	
					Total Cover of Bryophytes	
		0			Hydrophytic	
	Total Cover:	30	-		Vegetation	
	50% of Total Cover:			6	Present? Yes \bullet No \bigcirc	
Remarks: some sedges just emerging, few flowers, sphag 15, palludella 10						

SOIL

Profile Descripti Depth	-	e depth needed to docu atrix	ment the indicator or co Re	onfirm the ab dox Featu		cators)		
(inches)	Color (mois	t) %	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-16		100					Fibric Organics	thin silt layer at 8
							-	
¹ Type: C=Cor	centration. D=D	epletion. RM=Reduc	ced Matrix ² Locatio	n: PL=Pore	– <u> </u>	C=Root Cha	nnel. M=Matrix	
Hydric Soil I			Indicators for P		-			
Histosol or			Alaska Color C		4		Alaska Gleyed Without H	up 5V or Bodder
Histosol of Histosol of	. ,						Underlying Layer	
	、		Alaska Redox	-			Other (Explain in Remar	(S)
	Sulfide (A4) Surface (A12)			WIGH 2.51 1	luc			
Alaska Gle	. ,						nary indicator of wetland h	nydrology,
Alaska Gle			and an appropria	te landscap	e position i	must be pre	esent	
	yed Pores (A15)		⁴ Give details of c	olor change	e in Remark	s		
Restrictive Laye								
	,						Undrie Ceil Drocont	? Yes 🖲 No 🔿
Type: _{fros} Depth (incl							Hydric Soil Present	
Remarks:	1037.10							
HYDROLO	GY							
Wetland Hyd	rology Indicate	ors:					Secondary Indi	cators (two or more are required)
·	tors (any one is	sufficient)					_	ned Leaves (B9)
	Surface Water (A1)							
				hizospheres along Living Roots (C3)				
Saturation	· · ·		Marl Deposit	, ,				of Reduced Iron (C4)
Water Ma			Hydrogen Su				Salt Depos	
Sediment			Dry-Season					Stressed Plants (D1) ic Position (D2)
Drift Depo	. ,		Other (Expla	in in Rema	rks)		Shallow Ad	
	or Crust (B4)							graphic Relief (D4)
	oil Cracks (B6)						FAC-neutra	
Field Observa	. ,							
Surface Water		Yes No	Depth (inche	ac): 1				
		Yes No				Wetler	nd Unduele aux Duese a	it? Yes 🖲 No 🔾
Water Table P			Depth (inche	es): 0		wetia	nd Hydrology Presen	it? Yes 🖲 No 🔾
Saturation Pre (includes capi		Yes No O	Depth (inche	es): 0				
Describe Recor	ded Data (strear	n gauge, monitor we	ell, aerial photos, pre	vious inspe	ction) if ava	ailable:		
Remarks:								