## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T132_10
	gator(s): WAD, BAB		Landform (hil	lside, terrac	ee, hummocks etc.): sand bar
Local	relief (concave, convex, none): convex		Slope:		5 ° Elevation: 887
	gion : Interior Alaska Mountains	l at ·	62.94878029		Long.: -148.364860534 Datum: NAD83
		Lut	02.94070029		
	ap Unit Name:		0 V	No ○	NWI classification: R2USC
	matic/hydrologic conditions on the site typical for this tir	•			(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
		•	ly disturbed?		ionnai oli odinotanoco procont.
Are \	/egetation             , Soil               , or Hydrology	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map show	ving sar	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No C	)			
	Hydric Soil Present? Yes ● No ○	)			pled Area
	Wetland Hydrology Present? Yes ● No ○	)	W	ithin a W	etland? Yes ● No ○
Rem	arks: partially vegetated riverbar next to deadman cree		an creek R2UB	H at this lo	cation.
/EGI	ETATION -Use scientific names of plants. Li	st all spe		•	Dominance Test worksheet:
Tre	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.		0			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)
3.		0			Percent of dominant Species
4.		0	. $\square$		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	. $\square$		Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species x 1 =10
1.	Salix alaxensis	1		FAC	FACW Species 8 x 2 = 16
	Salix interior		_	FACW	FAC Species6 x 3 =18
3.	Salix pulchra		· •	FACW	FACU Species0 x 4 =0
4.	Salix niphoclada			UPL	UPL Species <u>1</u> x 5 = <u>5</u>
5.					Column Totals: <u>25</u> (A) <u>49</u> (B)
6.		•			
7.		0			Prevalence Index = B/A = 1.960
8.		0			Hydrophytic Vegetation Indicators:
9.		0	. $\square$		✓ Dominance Test is > 50%
10.		0	. $\square$		✓ Prevalence Index is ≤3.0
Hei	Total Cover: 50% of Total Cover:		- % of Total Cove	r: <u>1.6</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	_ 10	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Arctagrostis latifolia			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis	5	<b>✓</b>	FAC	be present, unless disturbed or problematic.
4.		0	. 📙		Plot size (radius, or length x width)
1 -		0			% Cover of Wetland Bryophytes
5.		_			(Where applicable)
6. 7.		0			% Bare Ground
6. 7. 8.		0			% Bare Ground Total Cover of Bryophytes
6. 7. 8. 9.		0			
6. 7. 8. 9.		0 0 0			Total Cover of Bryophytes  Hydrophytic
6. 7. 8. 9.		0 0 0 0	•		Total Cover of Bryophytes

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SOIL Sampling Point: SW13\_T132\_10

Depth	Matrix		Re					
(inches) Color (	noist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10		100					Coarse Sand	,
							-	
								-
				·			-	
Type: C=Concentration.		RM=Reduce	d Matrix <sup>2</sup> Locatio	n. Pl =Pore	Linina RC	=Root Cha	nnel M=Matrix	
lydric Soil Indicators:			Indicators for P				milet. Pi-Piddix	
Histosol or Histel (A1)			Alaska Color (	4	4	,iis.	Alaska Gleyed Without H	ue 5V or Pedder
Histic Epipedon (A2)			Alaska Alpine				Underlying Layer	de 31 of Reddel
Hydrogen Sulfide (A4)			Alaska Redox	, ,		<b>✓</b>	Other (Explain in Remarl	ks)
Thick Dark Surface (A			Alaska Redox	WIGH 2.51 TIG			( )	-,
Alaska Gleyed (A13)	12)						nary indicator of wetland h	nydrology,
Alaska Redox (A14)			and an appropria	ate landscape	position n	nust be pre	esent	
Alaska Gleyed Pores (	<b>\15</b> )		4 Give details of o	color change	in Remark	S		
estrictive Layer (if presen								
Type:	.,.						Hydric Soil Present	? Yes • No O
I ADC'								. 100 - 110 -
Depth (inches):	for redox de	velopment. B	ased on mulptiple	primary hydr	rology indi	cators and	hydrophytic vegetation, a	ssume soils are hydric.
Depth (inches): emarks:	l for redox de	velopment. B	ased on mulptiple	primary hydr	rology indi	cators and	hydrophytic vegetation, a	ssume soils are hydric.
Depth (inches): emarks: sufficient organic materia		velopment. B	ased on mulptiple	primary hydr	rology indi	cators and	hydrophytic vegetation, a	ssume soils are hydric.
Depth (inches): emarks: sufficient organic materia  YDROLOGY Vetland Hydrology Ind	cators:		ased on mulptiple	primary hydr	rology indi	cators and	_Secondary Indi	cators (two or more are required)
Depth (inches): emarks: sufficient organic materia  YDROLOGY Vetland Hydrology Ind	cators:						_Secondary Indi	cators (two or more are required) ned Leaves (B9)
Depth (inches): emarks: sufficient organic materia  YDROLOGY Vetland Hydrology Ind rimary Indicators (any or  Surface Water (A1)	cators: le is sufficient		Inundation	Visible on Aer	rial Imager	ry (B7)	Secondary Indi  Water Stai  Drainage R	cators (two or more are required) ined Leaves (B9) Patterns (B10)
Depth (inches): emarks: sufficient organic materia  YDROLOGY Vetland Hydrology Ind rimary Indicators (any or  Surface Water (A1)  High Water Table (A2)	cators: le is sufficient		☐ Inundation Sparsely Ve	Visible on Aer getated Conc	rial Imager	ry (B7)	Secondary Indi  Water Stai  Drainage F	cators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3
Pepth (inches):  emarks: sufficient organic materia  YDROLOGY  Yetland Hydrology Ind rimary Indicators (any or  Surface Water (A1)  High Water Table (A2  Saturation (A3)	cators: le is sufficient		Inundation Sparsely Ve	Visible on Aer getated Conc ts (B15)	rial Imagei ave Surfac	ry (B7)	Secondary Indi  Water Stai  Drainage F  Oxidized R  Presence o	cators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3 of Reduced Iron (C4)
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