WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borougł	n Sampling Da	ate: 21-Jun-12	_		
Applicant/Own	er: Alaska Energy Authority				Sar	npling Point:	SW12_T32_09			
Investigator(s):	JGK		Landform (hi	llside, terrac	e, hummocks etc.): Floodplain				
Local relief (co	ncave, convex, none): hummocky		Slope:	% / 7.2	Elevation:	782				
Subregion : Ir	nterior Alaska Mountains	Lat.:	62.76341311	23	Long.:148.349	9177759	Datum: NAD83			
Soil Map Unit N	lame:			NWI classification: Upland						
Are Vegetatio		significan	ntly disturbed? problematic?	(If nee	ormal Circumstan ded, explain any a	nswers in Rema				
Hydric	Soil Present? Yes	No () No () No ()		the Sam	pled Area etland?	Yes 🔾 No 🖲)			
	ter in pit may be due to recent upstream DN - Use scientific names of plant		pecies in the	plot.						
Tree Stratu		Absolut % Cove	e Dominant	Indicator Status	Dominance Test					
1.		0		Julus	That are OBL, FA		4 (A)			
2.		0			Total Number of D Species Across A		4 (B)			

Ζ.				0			Species Across All Strata: 4 (B)			
3.				0			Percent of dominant Species			
4.				0			That Are OBL, FACW, or FAC:(A/B)			
5.				0			Prevalence Index worksheet:			
		Total Cover		0			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20% of T	otal Cover:	0	OBL Species $0 \times 1 = 0$			
1	Alnus viridis			70	\checkmark	FAC	FACW Species 20 x 2 = 40			
2.	Saliy alayonaia			15		FAC	FAC Species <u>126</u> x 3 = <u>378</u>			
3.				2		FACU	FACU Species 2 x 4 = 8			
4.				0			UPL Species 0.1 x 5 = 0.500			
5.				0			Column Totals: 148.1 (A) 426.5 (B)			
				0						
				0			Prevalence Index = B/A = 2.880			
				0			Hydrophytic Vegetation Indicators:			
				0			Dominance Test is > 50%			
				0			✓ Prevalence Index is ≤3.0			
Total Cover:							Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 43				20% of	Total Cover:	17.4	Remarks or on a separate sheet)			
1.	Equisetum arvense			15	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.				5 FACW ¹ Indicators of hydric soil and wetland hydrology m						
3.				15	\checkmark	FACW	be present, unless disturbed or problematic.			
4.	Valeriana capitata			1		FAC	Plot size (radius, or length x width) 5x10m			
5.	Calamagrostis canadensis			20	\checkmark	FAC	Plot size (radius, or length x width) <u>5x10m</u> % Cover of Wetland Bryophytes 0			
6.	Anemone richardsonii			5		FAC	(Where applicable)			
7.	Boykinia richardsonii			0.1		UPL	% Bare Ground 15			
8.				0			Total Cover of Bryophytes 15			
9.				0						
10.				0			Hydrophytic			
Total Cover: <u>61.1</u> 50% of Total Cover: <u>20,55, 20% of Total Cover</u> : <u>12,22</u> Vegetation Present? Yes No										
	50% of Total Cover: <u>30.55</u> 20% of Total Cover: <u>12.22</u> Present? Yes • No ·									
Rem	Remarks: 2% picgla tree grouped w shrubs for dominance test, as total tree cover <5%									

		he depth nee fatrix	ded to docum	nent the indicator or cont Red	firm the abs		cators)					
Depth (inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-5		50)				1700	100	Fibric Organics				
	2 5V							Sandy Clay Loam	E004 rounded cobbles 1 to 4 in 1 final coars			
	2.5Y	4/3	50						50% rounded cobbles 1 to 4 in + fine\coars			
¹ Type: C=Cor	centration. D=	Depletion.	RM=Reduce	ed Matrix ² Location:		-		nnel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pro	blematio	c Hydric So	oils: ³					
Histosol or	Histel (A1)			Alaska Color Cha	ange (TA4	4) 4		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine sv	vales (TAS	5)		Underlying Layer				
	Sulfide (A4)			Alaska Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	s)			
	Surface (A12)											
Alaska Gle	. ,							nary indicator of wetland h	ydrology,			
Alaska Red				and an appropriate	e landscap	e position r	must be pre	esent				
_	yed Pores (A15	3		⁴ Give details of col	lor change	e in Remark	s					
)										
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes 🔾 No 🖲			
Depth (inch	nes):											
Remarks:												
) 9 jin prevents fur	ther excava	tion due to	infilling with water								
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one is	s sufficient)						Water Stained Leaves (B9)				
Surface W	/ater (A1)			Inundation Vision	sible on A	erial Image	ry (B7)	B7) Drainage Patterns (B10)				
✓ High Water Table (A2)								hizospheres along Living Roots (C3)				
Saturation	n (A3)			Marl Deposits	(B15)			Presence of Reduced Iron (C4)				
🗌 Water Ma	rks (B1)			Hydrogen Sulf	fide Odor	(C1)		Salt Deposits (C5)				
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stunted or Stressed Plants (D1)				
Drift Depo				Other (Explain		. ,		Geomorphic Position (D2)				
Algal Mat or Crust (B4) Shallow Aquitard (D3)								uitard (D3)				
□ Iron Deposits (B5) □ Microtopographic Relief (D4)												
· - ·	oil Cracks (B6)							FAC-neutra				
Field Observa	. ,											
Surface Water		$_{\sf Yes}$ \bigcirc		Depth (inches	-\.							
				Depth (inches	<i>.</i>):							
Water Table P	resent?	Yes 🖲	No \bigcirc	Depth (inches	;): 9		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾			
Saturation Pre (includes capi		Yes 🖲	No O	Depth (inches	;): 8							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
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