## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13		
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T141_04				
	gator(s): BAB	e, hummocks etc.): Hillside					
•	elief (concave, convex, none): hummocky		Slope: 8.7		° Elevation: 1011		
	· · · · · · · · · · · · · · · · · · ·		3.217825396				
_	jion : Interior Alaska Mountains	Lat <u>6</u>	3.217625390	)			
	p Unit Name:			<u> </u>	NWI classification: PSS1B		
Are V Are V		significantly naturally pro ving sam	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Ided, explain any answers in Remarks.)  Iormal Circumstances present? Yes ● No ○  Ided, explain any answers in Remarks.)		
		the Sam	pled Area				
	· · · · · · · · · · · · · · · · · · ·			thin a W			
	Wetland Hydrology Present? Yes ● No C	1					
	ETATION - Use scientific names of plants. Li	st all spec	Dominant	<u> </u>	Dominance Test worksheet:  Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:3(A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:				Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0	OBL Species 10 x 1 = 10				
1	Salix pulchra	70	<b>✓</b>	FACW	FACW Species 86 x 2 = 172		
	Saliv reticulata	0.1		FAC	FAC Species 14.1 x 3 = 42.30		
3.					FACU Species 2 x 4 = 8		
4.					UPL Species 5 x 5 = 25		
5.					Column Totals: <u>117.1</u> (A) <u>257.3</u> (B)		
6.							
7.					Prevalence Index = B/A = 2.197		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
Her	Total Cover: <u>50% of Total Cover: _3</u>	, , , , ,	of Total Cover	: 14.02	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Sanguisorba canadensis	15	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Carex aquatilis	10	✓	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Carex bigelowii			FAC	be present, unless disturbed or problematic.		
4.	Polemonium pulcherrimum			UPL	Plot size (radius, or length x width) 10m		
5.	Calamagrostis canadensis	4		FAC	Plot size (radius, or length x width) 10m    % Cover of Wetland Bryophytes		
6.	Chamerion angustifolium	2		FACU	(Where applicable)		
7.	Equisetum arvense	2		FAC	% Bare Ground		
8.	Petasites frigidus	1		FACW	Total Cover of Bryophytes 40		
9.	Luzula parviflora	0.1		FAC			
10.	Aconitum delphinifolium	<u>0.1</u> _47.2		FAC	Hydrophytic		
	<b>Total Cover:</b> 50% of Total Cover:2	9.44	Vegetation Present?  Yes   No ○				
Rem	arks: Rubarc 5%						

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SOIL Sampling Point: SW13\_T141\_04

JOIL									Samping	Point: 3W13_1141_04			
Profile Descript	ion: (Describe to t		eded to docum	nent the inc				ators)					
Depth	Matrix			-			Features						
(inches)	Color (moist)		<u></u>	Color (n	noist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-2									Fibric Organics	. ———			
2-5									Hemic Organics				
5-10	5Y	4/1	60	10YR	4/4	20	С	PL	Sandy Clay Loam				
10-20	10Y	4/1	95	10YR	4/4	5	С	PL	Sandy Clay Loam	concentrations along roots			
						-							
1 Type: C=Cor	 ncentration. D=	Depletion.	RM=Reduce	d Matrix	2 Location:	PI =Pore	- Ining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil I		э оргос.от.			ors for Pro		_						
	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5V or Pedder			
	edon (A2)				ka Color Chi ka Alpine sw		-	V	Underlying Layer	ue 31 of Reddel			
	Sulfide (A4)				ka Redox W	•	,		Other (Explain in Remarl	ks)			
	Surface (A12)												
Alaska Gle									nary indicator of wetland h	nydrology,			
✓ Alaska Red				and an	appropriate	landscap	e position r	nust be pre	esent				
Alaska Gle	eyed Pores (A15	)		4 Give o	details of col	or change	e in Remark	S					
Restrictive Laye	er (if present):												
Type:	er (ii present).								Hydric Soil Present	? Yes • No O			
Depth (inch	nes):								Tryane Son Tresent	163 0 110 0			
Remarks:	,												
Kemarks.													
LIVEROLO	CV												
HYDROLO Wetland Hyd		torci							Cd Td:	(b a			
	itors (any one is		,							cators (two or more are required)			
Surface W		Summeric		□ In	undation Vis	rible on A	orial Imago	n/(R7)	Water Stained Leaves (B9)  Drainage Patterns (B10)				
	er Table (A2)				arsely Vege				_	thizospheres along Living Roots (C3)			
✓ Saturation	` ,			_ '	arl Deposits		icave Suriac	.e (b0)	Presence of Reduced Iron (C4)				
☐ Water Ma	,				drogen Sulf	` ,	(C1)		Salt Deposits (C5)				
	Deposits (B2)				y-Season W				Stunted or Stressed Plants (D1)				
☐ Drift Depo	osits (B3)				her (Explain				✓ Geomorphic Position (D2)				
	or Crust (B4)						-,			quitard (D3)			
	☐ Iron Deposits (B5)								☐ Microtopographic Relief (D4)				
Surface S	oil Cracks (B6)								✓ FAC-neutra				
Field Observa	ations:												
Surface Water	r Present?	Yes $\bigcirc$	No 💿	De	epth (inches	):							
Water Table F	Present?	Yes 💿	No $\bigcirc$	De	epth (inches	): 4		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾			
Saturation Pre	esent?	Vac (	No O			•							
(includes capi	llary fringe)	res ©		De	epth (inches	): 2							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Describe.													
Remarks:													
l													

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