## WETLAND DETERMINATION DATA FORM - Alaska Region

\nnlice	-		•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ka-Susitna Borough Sampling Date: 01-Aug-13							
Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-13  Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T141_04												
	gator(s): BAB	ce, hummocks etc.): Hillside										
_	elief (concave, convex, none): hummocky	3 ° Elevation: 100										
	ion : Interior Alaska Mountains	l at ·	· 63.21782	 53061	Long.: -148.28496566 Datum: NAD83							
_		Lut	03.21702									
Soil Map Unit Name:  NWI classification: PSS1B  Are climatic/hydrologic conditions on the site typical for this time of year?  Yes No (If no, explain in Remarks.)												
Are Ve	natic/hydrologic conditions on the site typical for thi egetation , Soil , or Hydrology egetation , Soil , or Hydrology egetation , Soil , or Hydrology	significar naturally nowing sa	ntly disturbe problemation	d? Are "I	Normal Circumstances" present? Yes  No  eded, explain any answers in Remarks.)							
	.,	$\circ$		la tha Can	anlad Araa							
	Hydric Soil Present? Yes ● No	$\circ$		Is the Sampled Area								
	Wetland Hydrology Present? Yes   No	within a W	hin a Wetland? Yes ● No ○									
Rema	TATION -Use scientific names of plants.	. List all sp	oecies in 1	the plot.								
		Absolut		ant Indicator								
	e Stratum	% Cove		s? Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.		0			Total Number of Dominant							
2.		0			Species Across All Strata:3 (B)							
3.		0			Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.		0	_		Prevalence Index worksheet:							
	Total Co	ver: <u> </u>	_		Total % Cover of: Multiply by:							
Sapl	ling/Shrub Stratum 50% of Total Cover:	020	% of Total C	over: 0	OBL Species 10 x 1 = 10							
1	Salix pulchra	70	· •	FACW	FACW Species 86 x 2 = 172							
	Calin antiquilate			FAC	FAC Species 14.3 x 3 = 42.90							
3.				1	FACU Species 2 x 4 = 8							
4.				í —	UPL Species 5 x 5 = 25							
5.				i —								
6.				í ——	Column Totals: <u>117.3</u> (A) <u>257.9</u> (B)							
7.		۸		i ——	Prevalence Index = B/A = 2.199							
_ '				i ——	Hydronbytic Vocatation Indicators							
9.		$ \frac{0}{0}$		i ——	Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%							
10.		$ \frac{0}{0}$		i ——	✓ Prevalence Index is ≤3.0							
	Total Cov b Stratum 50% of Total Cover:	ver: 70.1	_	Cover: 14.02	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)							
1.	Sanguisorba canadensis	15			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)							
2.	Carex aquatilis				Indicators of hydric soil and wetland hydrology must							
3.	Caray higalawii			FAC	be present, unless disturbed or problematic.							
3. 4.	Polomonium nulohorrimum			UPL								
5.	0-1			FAC	Plot size (radius, or length x width) <u>10m</u>							
6.	Chamaenerion angustifolium		_	FACU	% Cover of Wetland Bryophytes (Where applicable)							
7.	Faultachus anness			FAC	, , , ,							
	Detecites frieidus			FACW	% Bare Ground							
9.	Luzula parviflora		- =	FAC	Total Cover of Bryophytes 40							
	Aconitum delphiniifolium	0.1		FAC	Hydrophytic							
10.	Total Co.		Hydrophytic Vegetation									
		ver: <u>47.2</u> 23.620		over: <u>9.44</u>	Present? Yes • No O							

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SOIL Sampling Point: SW13\_T141\_04

JUIL									Samping	Point: 3W13_1141_04		
Profile Descript	ion: (Describe to t		eded to docum	ent the inc				ators)				
Depth	Matrix			Red		ox Features						
(inches)	Color (moi	st)	<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		Denletion	RM=Reduce	d Matrix	2 Location	PI =Pore	Lining RC	=Root Cha	nnel. M=Matrix	. —		
Hydric Soil I		Берісцопі			ors for Pro				THE TT TIGHT			
	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5V or Pedder		
Histic Epip	. ,				ka Color Chi ka Alpine sw		-	V	Underlying Layer	ue 31 of Reddel		
	Sulfide (A4)			_	ka Redox W	`	•		Other (Explain in Remarl	(S)		
	Surface (A12)											
Alaska Gle	, ,								nary indicator of wetland h	nydrology,		
✓ Alaska Red				and an	appropriate	landscap	e position n	nust be pre	esent			
	yed Pores (A15	)		4 Give o	details of col	or change	e in Remark	S				
Restrictive Laye	er (if nresent):											
Type:	or (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		- Cros							Cd I-d:	(		
	tors (any one is									cators (two or more are required) ned Leaves (B9)		
Surface W		Summeric		☐ In	undation Vis	ible on A	arial Imager	n/(R7)		Patterns (B10)		
	er Table (A2)				arsely Vege					hizospheres along Living Roots (C3)		
✓ Saturation	` ,			_ `	arl Deposits		cave Juriac	.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)			
Algal Mat	or Crust (B4)								Shallow Ad	quitard (D3)		
☐ Iron Depo	sits (B5)									graphic Relief (D4)		
Surface S	oil Cracks (B6)								✓ FAC-neutra	al Test (D5)		
Field Observa	ations:											
Surface Water	r Present?		No 💿	De	epth (inches	):						
Water Table F	resent?	Yes 💿	No $\bigcirc$	De	epth (inches	): 4		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pre		Yes	No O	De	epth (inches	): 2						
(includes capi							.11 3.16	1-1-1-				
Describe Recor	ded Data (strea	ım gauge,	monitor well,	, aerial p	hotos, previ	ous inspe	ction) if ava	ıılable:				
Domarka												
Remarks:												

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