## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13								
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T128_07											
Investigator(s): JER Landform (hillside, terrace, hummocks etc.): Floodplain												
Local relief (concave, convex, none):		Slope: 3.5		- ·								
· · · · · · · · · · · · · · · · · · ·												
Subregion : Southcentral Alaska	Lai <u>(</u>	52.94537869	00									
Soil Map Unit Name:			<u> </u>	NWI classification: PSS1E								
Are climatic/hydrologic conditions on the site typical for this time of year?  Yes No (If no, explain in Remarks.)  Are Vegetation , Soil , or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes No No												
Are Vegetation , Soil , or Hydrology isignificantly disturbed? Are "Normal Circumstances" present? Its Vegetation , Soil , or Hydrology in naturally problematic? (If needed, explain any answers in Remarks.)												
SUMMARY OF FINDINGS - Attach site map sh	owing sam	pling point	locations	s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes   No	0											
Hydric Soil Present? Yes   No		pled Area										
Wetland Hydrology Present? Yes ● No	ithin a W	etland? Yes   No										
	donrocciono	nlot adiacont	to quift no	wanial areask with a cabble battom 6 0 ft wide 1 2 ft								
Remarks: riverine willow, slcw, small interfluv, water in deep, waterfall just downstream.	depressions.	piot adjacent	to swirt per	rrenial creek with a cobble bottom, 68 ft wide, 12 ft								
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
<b>/EGETATION</b> - Use scientific names of plants.	List all spe	cies in the	plot.									
	Absolute	Dominant	Indicator	Dominance Test worksheet:								
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species								
1.	0			That are OBL, FACW, or FAC:5 (A)								
2	0_			Total Number of Dominant Species Across All Strata: 5 (B)								
3.				Percent of dominant Species								
4	0			That Are OBL, FACW, or FAC: 100.0% (A/B)								
5	0			Prevalence Index worksheet:								
Total Cov	er: <u> </u>			Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species								
1. Salix pulchra	80	<b>✓</b>	FACW	FACW Species 100 x 2 = 200								
2. Salix alaxensis	1		FAC	FAC Species <u>44</u> x 3 = <u>132</u>								
Dasiphora fruticosa	10		FAC	FACU Species 2 x 4 = 8								
Salix reticulata	2		FAC	UPL Species <u>0</u> x 5 = <u>0</u>								
5				Column Totals: <u>146</u> (A) <u>340</u> (B)								
6				Prevalence Index = B/A =2.329_								
7												
8.				Hydrophytic Vegetation Indicators:								
9.	$ \frac{0}{0}$			✓ Dominance Test is > 50%								
10Total Cov				✓ Prevalence Index is ≤3.0								
Herb Stratum 50% of Total Cover:		of Total Cove	: 18.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)								
Petasites frigidus	8	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
Sanguisorba canadensis		<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
3. Calamagrostis canadensis	5		FAC	be present, unless disturbed or problematic.								
4. Sedum rosea	8	✓	FAC	Diet size (vadius ev length vuidth)								
5. Anemone richardsonii	15	<b>✓</b>	FAC	Plot size (radius, or length x width) % Cover of Wetland Bryophytes								
6. Viola epipsila	2		FACW	(Where applicable)								
7. Mertensia paniculata	2		FACU	% Bare Ground								
8. Rumex arcticus	1		FAC	Total Cover of Bryophytes								
9. Polemonium acutiflorum	1		FAC									
10. Valeriana capitata	1		FAC	Hydrophytic								
T-4-I C	er: 53			Vegetation								
<b>Total Cov</b> 50% of Total Cover:		of Total Cover	10.6	Present? Yes   No								

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SOIL Sampling Point: SW13\_T128\_07

										10 54115_1125_67
Profile Descripti	ion: (Describe to		eded to docume	ent the inc		firm the ab		cators)		
Depth (inches)				Color (moist)		1	_Loc_2	_ Texture	Remarks	
0-2	Color (inc	DIST	100	COIOI (III	OIST)	<u>%</u>	Туре	LUC	Hemic Organics	
2-3			100						Sapric Organics	
3-15	2.5Y	4/1		7.5YR	4/6	30			Silt Loam	avanite aphbles we surrounding fragments 20
3-13	2.51	4/1		7.51K				PL	SIIL LOGIII	granite cobbles w surrounding fragments 30
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduced	d Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	c Hydric S	oils: <sup>3</sup>		
	r Histel (A1)				a Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	. ,			Alasł	a Alpine sv	vales (TA5	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			<b>✓</b> Alasŀ	a Redox W	ith 2.5Y H	lue		Other (Explain in Remark	s)
Thick Dark	Surface (A12	)		3.0 :-	.d:					doala.a
Alaska Gle							ne position i		mary indicator of wetland h esent	lydrology,
Alaska Red	` '			4 Give	etails of co	lor change	e in Remark	rs		
☐ Alaska Gle	yed Pores (A1	5)		OIVC C	ctalls of co	ior charig	e iii Keman			
Restrictive Laye	er (if present):									
Type:									Hydric Soil Present	? Yes 🏵 No 🔾
Depth (inch	nes):									
Remarks:										
<b>HYDROLO</b>	GY									
Wetland Hyd	rology Indica	itors:							Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one	is sufficient)							Water Stail	ned Leaves (B9)
Surface W	. ,						erial Image		_	Patterns (B10)
✓ High Wate	` ,						ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)
✓ Saturation	` ,				rl Deposits	` '				of Reduced Iron (C4)
✓ Water Ma					drogen Sulf				☐ Salt Depos	
	Deposits (B2)				/-Season W					Stressed Plants (D1)
☐ Drift Depo				∐ Ot	ner (Explair	in Rema	rks)			ic Position (D2)
	or Crust (B4)								_	juitard (D3)
☐ Iron Depo	. ,									graphic Relief (D4)
Field Observa	oil Cracks (B6)	·							▼ FAC-neutra	ii Test (D5)
Surface Water		Yes 🔾	No •	De	pth (inches	:).				
		Yes •			. `	•		Wotla	nd Hydrology Drocon	t? Yes • No O
Water Table P Saturation Pre				De	pth (inches	s): 6		wetia	nd Hydrology Presen	tr res © NO C
(includes capi		Yes 💿	No O	De	pth (inches	s): 1				
Describe Recor	ded Data (stre	am gauge, i	monitor well,	aerial p	notos, previ	ious inspe	ection) if ava	ailable:		
Remarks:										
some water in	depressions									

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