## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 30-Jul-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T05_0
Investigator(s): CTS, EKJ	Landform (hillside, terrace, hummocks etc.): Channel (active)
Local relief (concave, convex, none): convex	Slope:         % /         7.0         °         Elevation:         515
Subregion : Interior Alaska Mountains Lat.:	62.7826180384 Long.: -147.905025746 Datum: NADE
Soil Map Unit Name:	NWI classification: R3USC
	ar? Yes  No (If no, explain in Remarks.) tly disturbed? Are "Normal Circumstances" present? Yes  No (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No
Remarks:				

## VEGETATION - Use scientific names of plants. List all species in the plot.

Tree Stratum		Absolute Dominant % Cover Species?		Indicator	Dominance Test worksheet:			
					Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: <u>2</u> (A)		
2.		-	0			Total Number of Dominant Species Across All Strata: 2 (B)		
3.			0					
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		-	0					
	Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
San				of Total Cover:	0			
Jap		0	2070 0					
1.	Salix alaxensis		1		FAC	FACW Species $5.1$ x 2 = $10.2$		
2.	Populus balsamifera	_	1		FACU	FAC Species <u>5.2</u> x 3 = <u>15.6</u>		
3.	Alnus viridis	_	1		FAC	FACU Species <u>1.3</u> x 4 = <u>5.200</u>		
4.			0			UPL Species x 5 =		
5.			0			Column Totals: <u>11.6</u> (A) <u>31</u> (B)		
6.		_	0			Description of $Index = D/A = 0.0272$		
			0			Prevalence Index = B/A = <u>2.672</u>		
			0			Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
	Total Cover		3			Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Her	b Stratum 50% of Total Cover:	1.5	20%	of Total Cover:	0.6	Remarks or on a separate sheet)		
1.	Parnassia palustris	_	5	$\checkmark$	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Chamaenerion latifolium		2	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Eurybia sibirica	-	1		FAC	be present, unless disturbed or problematic.		
4.	Hedysarum alpinum	-	0.1		FACU			
5.	Equisetum scirpoides	-	0.1		FACU	Plot size (radius, or length x width) <u>10m</u>		
6.	Festuca rubra	-	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.	Artemisia tilesii		0.1		FACU	% Bare Ground		
8.	Sanguisorba canadensis	-	0.1		FACW	Total Cover of Bryophytes 0		
9.	Astragalus alpinus	_	0.1		FAC	<u> </u>		
10.			0			Hydrophytic		
	Total Cover:	8	.60			Vegetation		
	50% of Total Cover:4	-		of Total Cover:	1.720	Present? Yes $\bullet$ No $\bigcirc$		
Remarks: total chrub cover < 5% thus no shrub species dominant								

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	on: (Describe to the depth Matrix	needed to docu		onfirm the ab		cators)			
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
				_					
	2								
<sup>1</sup> Type: C=Con	centration. D=Depletic	n. RM=Reduc	ed Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	-	
Hydric Soil Ir	idicators:		Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>			
Histosol or	Histel (A1)		Alaska Color C	hange (TA	4) 4)		] Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A2)			Alaska Alpine swales (TA5)						
Hydrogen S	Sulfide (A4)		Alaska Redox	With 2.5Y I	lue	$\checkmark$	Other (Explain in Remark	(s)	
Thick Dark Surface (A12)									
Alaska Gleyed (A13) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present									
	Alaska Redox (A14) Give details of color change in Remarks								
Alaska Gley	ed Pores (A15)					KS			
Restrictive Laye	r (if present):								
Type:							Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inch	es):								
Remarks:									
river bar, assum	e hydric soil similar to	SW12_T18_0	1.						
HYDROLO	GY								
Wetland Hydr	ology Indicators:						Secondary Indi	cators (two or more are required)	
Primary Indicat	ors (any one is sufficie	nt)					Water Stai	ned Leaves (B9)	
Surface W	ater (A1)		Inundation \	/isible on A	erial Image	ery (B7)	🗹 Drainage F	Patterns (B10)	
High Wate	r Table (A2)		Sparsely Veg	jetated Cor	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation	(A3)		Marl Deposit	s (B15)				of Reduced Iron (C4)	
Water Mar	. ,		Hydrogen Su	ılfide Odor	(C1)		Salt Depos		
	Deposits (B2)		Dry-Season	Water Tabl	e (C2)			Stressed Plants (D1)	
✓ Drift Depo	. ,		Other (Expla	in in Rema	rks)			ic Position (D2)	
	or Crust (B4)						_	juitard (D3)	
Iron Depo	( )						_ ' '	graphic Relief (D4)	
Surface Sc	il Cracks (B6)						✓ FAC-neutra	al Test (D5)	

Field Observations: Surface Water Present?

Water Table Present?

Saturation Present? (includes capillary fringe) 
 Yes
 No
 Depth (inches):

 Yes
 No
 Depth (inches):

 Yes
 No
 Depth (inches):

 Yes
 No
 Depth (inches):

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks: