## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	_ Sampling Date:	03-Aug-12
Applicant/Owner: Alaska Energy Authority		Sampl	ling Point:	SW12_T37_01
Investigator(s): CTS, EKJ	Landform (hill	side, terrace, hummocks etc.):	Flat	
Local relief (concave, convex, none): flat	Slope: 1.7	% / 1.0 ° Elevation: 44	7	
Subregion : Southcentral Alaska Lat	62.803979909	2 Long.: -149.53221	9966 C	Datum: WGS84
Soil Map Unit Name:		NWI class	sification: PSS1	E
	rear? Yes antly disturbed? y problematic?	<ul> <li>No (If no, explain i Are "Normal Circumstances (If needed, explain any ans)</li> </ul>	s" present? Yes	
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, impo	rtant features,	etc.
Hydrophytic Vegetation Present? Yes $oldsymbol{O}$ No $igodoldsymbol{O}$	_			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $\odot$ No $\bigcirc$
Remarks: Clocod Murica/Daciphora Jow	ccrub poc	sible kettle landform		

Remarks: Closed Myrica/Dasiphora low scrub, possible kettle landform

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

			٨he	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum		% Cover		Species?	Status	Number of Dominant Species	
1.			-	0			That are OBL, FACW, or FAC: <u>3</u> (A)
2.			-	0			Total Number of Dominant Species Across All Strata: 3 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			-	0			
0.		Total Cove	- r:	0			Prevalence Index worksheet:
6	ling / Shruh Stratum	50% of Total Cover:	_		of Total Cover:	0	Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum		0	_ 2070		0	OBL Species <u>115.5</u> x 1 = <u>115.5</u>
1.	Myrica gale		_	60	$\checkmark$	OBL	FACW Species <u>1.1</u> x 2 = <u>2.200</u>
2.	Dasiphora fruticosa		_	15		FAC	FAC Species <u>15</u> x 3 = <u>45</u>
3.	Andromeda polifolia		_	0.1		FACW	FACU Species x 4 =
4.	Vaccinium oxycoccos			0.1		OBL	UPL Species x 5 =
5.	Picea mariana			1		FACW	Column Totals: 131.6 (A) 162.7 (B)
6.			_	0			
				0			Prevalence Index = B/A = <u>1.236</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
			-	0			✓ Prevalence Index is ≤3.0
		Total Cove	r:	76.2			$\Box$ Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum_	50% of Total Cover:	38.1	20%	of Total Cover:	15.24	Remarks or on a separate sheet)
1.	Menyanthes trifoliata		_	40	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Carex tenuiflora		_	0.1		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Trichophorum alpinum			0.1		OBL	be present, unless disturbed or problematic.
4.	Carex aquatilis			15	$\checkmark$	OBL	Diet eize (zedius, ez length y width)
5.	Carex limosa			0.1		OBL	Plot size (radius, or length x width) <u>10m</u>
6.	Eleocharis quinqueflora			0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)
7.			_	0			% Bare Ground
				0			Total Cover of Bryophytes 50
				0			
				0			Hydrophytic
		Total Cove	r: _	55.4			Vegetation
		50% of Total Cover:	27.7	20%	of Total Cover:	11.08	Present? Yes $\bullet$ No $\bigcirc$
Rem	arks:						

Profile Descripti Depth	-	ne depth need I <b>atrix</b>	led to docum	ent the indicator or cor <b>Red</b>	nfirm the ab Iox Featu		ators)		
(inches)	Color (mois	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-1			80					Fibric Organics	20% roots
1-13			80					Hemic Organics	20% roots
	,,				- <u>-</u>	,			_
									a *
								<u></u>	
<sup>1</sup> Type: C=Cor	ncentration. D=I	Depletion. R	M=Reduce	d Matrix <sup>2</sup> Location	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric So	oils: <sup>3</sup>		
Histosol or	r Histel (A1)			Alaska Color Ch	ange (TA	4) <sup>4</sup>		Alaska Gleyed Without I	Hue 5Y or Redder
✔ Histic Epip	edon (A2)			Alaska Alpine sv	wales (TA	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox W	Vith 2.5Y H	lue		Other (Explain in Rema	<sup>r</sup> ks)
Thick Dark	<pre>surface (A12)</pre>			3 One indicator of	hydrophyd	ic vegetatio	n one prin	mary indicator of wetland	hydrology
Alaska Gle				and an appropriat					nyurology,
Alaska Red				<sup>4</sup> Give details of co	olor chang	e in Remark	s		
	eyed Pores (A15)	)			lor chang				
Restrictive Laye	er (if present):								
Type:								Hydric Soil Presen	t? Yes 🖲 No 🔾
Depth (incl	ies):								
HYDROLO	GY								
Wetland Hyd	rology Indicat	ors:						Secondary Inc	licators (two or more are required)
	tors (any one is	sufficient)						Water Sta	ained Leaves (B9)
Surface W				Inundation Vi	sible on A	erial Imager	ту (В7)	Drainage	Patterns (B10)
High Wate				Sparsely Vege	etated Cor	ncave Surfac	e (B8)		Rhizospheres along Living Roots (C
Saturation	. ,			Marl Deposits	. ,			_	of Reduced Iron (C4)
Water Ma				Hydrogen Sul				Salt Depo	
_	Deposits (B2)			Dry-Season V					or Stressed Plants (D1)
Drift Depo	or Crust (B4)			Other (Explain	n in Rema	rks)			hic Position (D2) Aquitard (D3)
								_	ographic Relief (D4)
	oil Cracks (B6)							FAC-neutr	
Field Observa									
Surface Wate	r Present?	Yes 🖲	No $\bigcirc$	Depth (inche	s): 1				
Water Table F	Present?	Yes 🖲	No 〇	Depth (inche	s). 0		Wetla	nd Hydrology Prese	nt? Yes $ullet$ No $igodom$
Saturation Pre (includes capi		Yes 🖲	No 〇	Depth (inches	,				
		m gauge, m	ionitor well	, aerial photos, prev	ious inspe	ction) if ava	ilable:		
		gaage,		, acital priotoc, prot	iouo nope				
Remarks:									