## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Ma	tanuska-Susitna Borough	Sampling Date:	23-Jun-12	
Applicant/Owner: Alaska Energy Authority		Samplii	ng Point: SW1	.2_T19_03	
Investigator(s): JGK	Landform (hillside,	terrace, hummocks etc.):	Hillside		
Local relief (concave, convex, none): hummocky	Slope: 26.7 %	15.0 ° Elevation: 907	7		
Subregion : Southcentral Alaska Lat.:	62.7835299089	Long.: -149.517839	966 Datu	m: WGS84	
Soil Map Unit Name:		NWI classi	ification: Upland		
		No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answ	present? Yes 🖲	No O	
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point loca	ations, transects, impor	tant features, etc	<b>)</b> .	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $\bigcirc$ No $ullet$
Remarks:				

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

		۸he	Absolute Dominan		Indicator	Dominance Test worksheet:	
Tree	Stratum			Cover	Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC: (A)
2.			_	0			Total Number of Dominant Species Across All Strata: 4 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			_	0			
-		Total Cove		0			Prevalence Index worksheet:
Conli	ing/Shrub Stratum	50% of Total Cover:			of Total Cover:	0	Total % Cover of: Multiply by:
Sapi	ing/Sinub Sciatum		0	20/0			OBL Species $0 \times 1 = 0$
1.	Vaccinium uliginosum			30	$\checkmark$	FAC	FACW Species <u>12</u> x 2 = <u>24</u>
2.	Empetrum nigrum			25	$\checkmark$	FAC	FAC Species x 3 =
3.	Cassiope tetragona		_	3		FACU	FACU Species <u>5</u> x 4 = <u>20</u>
4.	Betula glandulosa		_	15	$\checkmark$	FAC	UPL Species x 5 =
5.	Ledum decumbens			2		FACW	Column Totals: <u>87</u> (A) <u>254</u> (B)
6.				0			
				0			Prevalence Index = B/A = 2.920
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is ≤3.0
-		Total Cove	er:	75			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb	Stratum	50% of Total Cover:			of Total Cover:	15	Remarks or on a separate sheet)
1.	Carex atrofusca			10	$\checkmark$	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Lycopodium clavatum			2		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
-				0			be present, unless disturbed or problematic.
				0			
				0			Plot size (radius, or length x width) <u>10m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground 0
				0			Total Cover of Bryophytes 30
				0			
			_	0			Undraghttia
10 0						Hydrophytic Vegetation	
		50% of Total Cover:	6		of Total Cover:	2.4	Present? Yes • No O
Rema	arks: tr salpul salgla rubus	s sp. pedlab unk grass d	warf p	icala si	alcom		

SOIL
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		he depth ne <b>fatrix</b>	eded to docur	nent the indicator or cor Rec	nfirm the ab		cators)		
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3			100					Fibric Organics	
3-5			100					Hemic Organics	
5-6	·		100	,				Sapric Organics	
6-7		4/3	100					Silt Loam	
								Silt Loam	
7-9	10YR	3/4	100						few semi-angular gravel
9-12	10YR	2/2	90		·			Sandy Loam	10% coarse sandsemi-angular gravel
<sup>1</sup> Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix <sup>2</sup> Location	: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>		
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4) 4)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	s)
Thick Dark	Surface (A12)			3 One indicator of	hu du a n hu d	ie voestati		any indicator of watland b	video lo ovi
Alaska Gle				and an appropriat				nary indicator of wetland h esent	yarology,
Alaska Rec				<sup>4</sup> Give details of co	olor chang	e in Remarl	ks		
🔄 Alaska Gle	yed Pores (A15	5)			nor chang		K3		
Restrictive Laye	er (if present):								
Type: ice								Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inch	nes): 12								
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						Secondary India	cators (two or more are required)
	tors (any one is	s sufficient	)						ned Leaves (B9)
Surface W	. ,			Inundation V		-			atterns (B10)
	er Table (A2)			Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposits	` '	(C1)		Salt Depos	f Reduced Iron (C4)
	Deposits (B2)			Hydrogen Su					Stressed Plants (D1)
	,			Other (Explai					ic Position (D2)
	or Crust (B4)							Shallow Aq	
Iron Depo									raphic Relief (D4)
Surface Se	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)
Field Observa	ations:		0						
Surface Water	Present?		No 🖲	Depth (inche	s):				
Water Table P	Present?	Yes $\mathbb C$	No 🖲	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pre (includes capi		$_{Yes}$ $\bigcirc$	No 🖲	Depth (inche	s):				
Describe Recor	ded Data (strea	am gauge,	monitor we	ll, aerial photos, prev	vious inspe	ection) if av	ailable:		
Remarks:									