## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borou	gh/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Jul-13								
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T124_02											
Investi	gator(s): JER	e, hummocks etc.): Hillside												
	elief (concave, convex, none): convex		— Slop		% / 16.2									
	ion : Southcentral Alaska	l at	— · · 62.7	 757290596		Long.: -149.1003263 Datum: NAD83								
-	p Unit Name:													
			0	Vaa	• No O	NWI classification: Upland								
	natic/hydrologic conditions on the site typical for thi egetation $\ \square$ , Soil $\ \square$ , or Hydrology $\ \square$	•				(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○								
		-	-			omar or cametaneco procent.								
Are v	egetation 🔲 , Soil 🔲 , or Hydrology 🗀	naturally	problei	matic?	(If nee	eded, explain any answers in Remarks.)								
SUMI	MARY OF FINDINGS - Attach site map sl	nowing sa	amplin	g point l	ocations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes No Significant													
	yane com i recenti	, ⊙												
Wetland Hydrology Present? Yes No No Within a Wetland? Yes No Wetland?														
Rema		vater, dropo	off dow	nslope. wa	iter in pit is	s downslope flow probably from melting seasonal frost								
	upslope													
VEGE	TATION -Use scientific names of plants	. List all s	pecies	in the r	olot.									
		Absolu		minant		Dominance Test worksheet:								
Tre	e Stratum	% Cov		pecies?	Status	Number of Dominant Species								
1.			)			That are OBL, FACW, or FAC:3 (A)								
2.			)			Total Number of Dominant Species Across All Strata: 3 (B)								
3.			)			Percent of dominant Species								
4.			)			That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.			)			Prevalence Index worksheet:								
	Total Co	ver: 0				Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	02	0% of To	tal Cover:	0	OBL Species 0 x 1 = 0								
1	Alnus viridis	6.	5	<b>~</b>	FAC	FACW Species 12 x 2 = 24								
	Spiraea stevenii		_		FACU	FAC Species 107 x 3 = 321								
	Saliv pulchra		_		FACW	FACU Species 28.1 x 4 = 112.4								
	Ribes triste		_		FAC	UPL Species 0 x 5 = 0								
5.			)			Column Totals: <u>147.1</u> (A) <u>457.4</u> (B)								
6.			<u> </u>											
7.		,	)			Prevalence Index = B/A = 3.109								
8.			)			Hydrophytic Vegetation Indicators:								
9.		_	)			✓ Dominance Test is > 50%								
10.			)			Prevalence Index is ≤3.0								
	Total Co					Morphological Adaptations (Provide supporting data in								
Her	<b>b Stratum</b> 50% of Total Cover:	502	20% of T	otal Cover:	20	Remarks or on a separate sheet)								
1.	Cornus suecica	2	0	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
2.	Dryopteris expansa		<u>.                                    </u>		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
3.	Rubus arcticus		_		FAC	be present, unless disturbed or problematic.								
4.	Trientalis europaea	5	<u> </u>		FACU	Plot size (radius, or length x width) 10m								
5.	Spinulum annotinum		-		FACU	% Cover of Wetland Bryophytes								
6.	Calamagrostis canadensis		_	<b>Y</b>	FAC	(Where applicable)								
7.	Bistorta plumosa		_		FACU	% Bare Ground								
8.	Carex spectabilis		<u>!</u> —		FACW	Total Cover of Bryophytes								
9.														
10.			_		FAC	Hydrophytic								
				ntal Cover	0.43	vegetation Present? Yes  No								
	50% of Total Cover:		U/0 UI 1C	nai cover:	9.42									
10.	Phodiala integrifolia	1 	 <u>L</u>	tal Cover:	FAC FAC 9.42									

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SOIL Sampling Point: SW13\_T124\_02

Profile Description	(Describe to	the death no	- dad to docur		firm the al	of indic			10mc. 54415_1124_02			
		the depth ne  Matrix	eded to docui	nent the indicator or co	nfirm the at dox Feati		ators)					
Depth (inches)	Color (me		%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks			
0-2	COIOI (IIII	Olsty	100	color (moise)		1700	200	Fibric Organics				
2-3			100					Fibric Organics				
3-11	7.5YR	3/1	80		-			Fine Loamy Silt	with high organic content and gravel inclusi			
11-17	10YR							Loamy Sand				
	101K	3/2	100					Loanly Sand	gravel			
				<del></del>								
								N-				
¹Type: C=Con	centration. D	=Depletion	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: <sup>3</sup>					
	Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	` '			Alaska Alpine s		-		Underlying Layer				
	Sulfide (A4)			Alaska Redox \	Nith 2.5Y	Hue		Other (Explain in Remark	rs)			
	Surface (A12	2)										
Alaska Gle	-	,		<sup>3</sup> One indicator of and an appropria				nary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)				,		·	ESCIT				
Alaska Gle	yed Pores (A1	15)		<sup>4</sup> Give details of o	olor chang	je in Remark	(S					
Restrictive Laye	er (if present):	:										
Type: frost	t							<b>Hydric Soil Present</b>	? Yes ○ No •			
Depth (inch	nes): 14											
Remarks:												
no hydric soil in	dicators											
,												
LIVEROLO	O.V.											
HYDROLO Wetland Hydr		atoro						Carandan, Indi				
Primary Indicat			-)						cators (two or more are required)			
		is sufficient	.,	Inundation V	icible on A	Vorial Image	n. (B7)	Water Stained Leaves (B9)  (B7) Drainage Patterns (B10)				
☐ Surface Water (A1)  ✓ High Water Table (A2)				Sparsely Veg		_			hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposit		neave same	cc (B0)		of Reduced Iron (C4)			
☐ Water Mai	. ,			☐ Hydrogen Su	. ,	(C1)		Salt Depos	` ,			
Sediment Deposits (B2)				Dry-Season \					Stressed Plants (D1)			
Drift Deposits (B3)				Other (Expla				Geomorph	ic Position (D2)			
Algal Mat	or Crust (B4)			_ ` ` '		,		✓ Shallow Ac	juitard (D3)			
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)			
Surface So	oil Cracks (B6)	)						FAC-neutra	l Test (D5)			
Field Observa	itions:											
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):							
Water Table P	resent?	Yes 🤄	No O	Depth (inche	es): 12		Wetla	nd Hydrology Presen	t? Yes • No 🔾			
Saturation Pre	sent?	Vac (	No O	Depth (inche	•							
(includes capil	llary fringe)	165 0	110 🔾	Берит (піспе	:5). /							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
although this is	wet I think th	he ground i	s still thawin	g and this is realy a	n upland.							

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