## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 21-Jun-12			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T32_02			
Investi	gator(s): JGK	ce, hummocks etc.): Gulch or Gully						
Local	relief (concave, convex, none): hummocky		Slope:	% / 15.	- · · · · · · · · · · · · · · · · · · ·			
Subre	gion : Interior Alaska Mountains	Lat ·	62.76200810					
			02.70200010					
	ap Unit Name:		0 V	■ Na ○	NWI classification: Upland			
Are \		significantl	y disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○			
Are \	'egetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No		l-	the Com	valed Avec			
	Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes ○ No ◉					
	Wetland Hydrology Present? Yes O No	•	W	within a Wetland? Yes ○ No ●				
Rem	arks:							
VEGI	ETATION - Use scientific names of plants. L	ist all spe	ecies in the	-	Dominance Test worksheet:			
Tre	e Stratum	% Cover		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 2 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	r: <u> </u>			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species0 x 1 =0			
1.	Alnus viridis	15		FAC	FACW Species 41 x 2 = 82			
2.	Salix richardsonii	40	<b>✓</b>	FACW	FAC Species <u>45</u> x 3 = <u>135</u>			
3.	Salix commutata	30	<b>✓</b>	FAC	FACU Species <u>42</u> x 4 = <u>168</u>			
4.	Linnaea borealis	20		FACU	UPL Species 0 x 5 = 0			
5.	Viburnum edule	5		FACU	Column Totals: <u>128</u> (A) <u>385</u> (B)			
6.		0						
7.		0			Prevalence Index = B/A = 3.008			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Hei	Total Cover 50% of Total Cover: _	r: <u>22</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
1.	Mertensia paniculata	15	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Petasites frigidus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Rubus arcticus (IAM)			FACU	be present, unless disturbed or problematic.			
4.	-				Plot size (radius, or length x width)			
5.					% Cover of Wetland Bryophytes 0			
					(Where applicable)			
					% Bare Ground <u>20</u>			
					Total Cover of Bryophytes			
9.								
4.0					Hydrophytic			
10.	Table .							
10.	<b>Total Cover</b> 50% of Total Cover:		of Total Cover	3.6	Vegetation Present? Yes  No			

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SOIL Sampling Point: SW12\_T32\_02

		the depth ne	eeded to docur	ment the indicator or co	onfirm the ab		cators)					
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-3								Fibric Organics				
3-6	10YR	2/1	60					Silt Loam	40% roots with om. inclusions of 10yr 3/3 s			
6-11.5	10YR	3/3	— 75					Silt Loam	20% roots 5% cobbles ca. 1-2 inches			
11.5-14	10YR	3/3	20					Sandy Loam	80% subangular/rounded cobbles 1-6 in +			
	1011	3/3						34.13, 234	00 /0 Subungular/Tourided Cobbles 1 C			
							-	-				
¹Type: C=Cor	 ncentration. D=	-Depletion	. RM=Reduce	ed Matrix <sup>2</sup> Location				annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>					
Histosol or	r Histel (A1)			Alaska Color C	or Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	edon (A2)			Alaska Alpine s	-	-		Underlying Layer				
l — ' - '	Sulfide (A4)			☐ Alaska Redox \	Nith 2.5Y I	Hue	L	Other (Explain in Remark	s)			
_	Surface (A12)	)		3 One indicator of	hvdronhv	tic vegetatic	on one nrin	mary indicator of wetland h	nydrology			
Alaska Gle				and an appropria					ydrology,			
Alaska Red		_,		4 Give details of o	olor chang	e in Remarl	ks					
☐ Alaska Gie	yed Pores (A15	j) 					<u> </u>					
Restrictive Laye	er (if present):								0 0			
Type:	).							Hydric Soil Present	? Yes○ No •			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one i	s sufficien	t)					Water Stained Leaves (B9)				
Surface W	/ater (A1)			Inundation V	'isible on A	erial Image	ery (B7)		Patterns (B10)			
High Water Table (A2)				Sparsely Veg	jetated Cor	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)			
Saturation	` '			Marl Deposit	s (B15)			_	of Reduced Iron (C4)			
	Water Marks (B1)					(C1)		Salt Depos				
	Deposits (B2)		☐ Dry-Season \					Stressed Plants (D1)				
☐ Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)			
☐ Algal Mat☐ Iron Depo	or Crust (B4)							_	quitard (D3) graphic Relief (D4)			
	oil Cracks (B6)								grapnic Relier (D4) al Test (D5)			
Field Observa								IAC IICaaa	i lest (D3)			
Surface Water		Yes C	No ●	Depth (inche	-c):							
Water Table P			No ●		•		Wetla	nd Hydrology Presen	t? Yes O No •			
Saturation Pre		_	_	Depth (inche	,		1100.0.	ilu ilyalology i less	t: 165 C 110 C			
(includes capil		Yes $\subseteq$	No 💿	Depth (inche	es):							
Describe Record	ded Data (stre	am gauge,	, monitor wel	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:					
Remarks:												

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