## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 05-Aug-12
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T35_05
	gator(s): CTS, EKJ		Landform (hil	lside, terrac	ce, hummocks etc.): Toeslope
-	elief (concave, convex, none): concave		Slope:	% / 10.0	- ·
			· —		
_	jion : Southcentral Alaska	Lal	62.89948817	34	
	p Unit Name:			0 0	NWI classification: PEM1B
Are V Are V	matic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology , egetation , Soil , or Hydrology , Soil , or Hydrology , ARY OF FINDINGS - Attach site map should be supported by the site of the s	significantly naturally pr owing sam	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes  No  eded, explain any answers in Remarks.)  s, transects, important features, etc.
	(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Is	the Sam	pled Area
	· · · · · · · · · · · · · · · · · · ·	_		ithin a W	-
	Wetland Hydrology Present? Yes  No arks: Hgwswt, wet sedge-willow tundra (Carrar-Salfu		Ų		
	ETATION - Use scientific names of plants.	List all spe Absolute % Cover	Dominant	•	Dominance Test worksheet:  Number of Dominant Species
1.		0	П		That are OBL, FACW, or FAC:3(A)
2.					Total Number of Dominant Species Across All Strata: 3 (B)
3.					
4.		$ \frac{0}{0}$			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					
	Total Cove				Prevalence Index worksheet:  Total % Cover of: Multiply by:
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover	: 0	001.0
	Salix fuscescens		<b>✓</b>	FACW	
	Vaccinium uliginosum		<b>✓</b>	FAC	FACUS paging 27 x 3 = 81
	Andromeda polifolia	1_		FACW	FACU Species 0 x 4 = 0
	Salix pulchra	3		FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.					Column Totals: <u>88.1</u> (A) <u>158.2</u> (B)
6.					Prevalence Index = B/A =1.796_
7.					
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
Her	b Stratum 50% of Total Cover:		6 of Total Cove	r: <u>5.8</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Carex rariflora	30	<b>~</b>	OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Comarum palustre			OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Rhodiola integrifolia			FAC	be present, unless disturbed or problematic.
4.	Carex aquatilis			OBL	Plot size (radius, or length x width) 10m
5.	Trichophorum alpinum			OBL	% Cover of Wetland Bryophytes 50
6.	Eriophorum angustifolium			OBL	(Where applicable)
7.	Rubus arcticus			FAC	% Bare Ground
8.	Equisetum arvense			FAC	Total Cover of Bryophytes
9.	Sanguisorba canadensis	2		FACW	
10.	Swertia perennis			FACW	Hydrophytic
	<b>Total Cove</b> 50% of Total Cover:		of Total Cover	:11.82	Vegetation Present? Yes ● No ○
Rem	arks: Calcan = 0.1				

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SOIL Sampling Point: SW12\_T35\_05

Depth	Matrix		Re					
(inches) Color (	moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2		80					Fibric Organics	20% roots
2-17		80					Hemic Organics	20% roots
1 C. C		DM Dadusa			Lining DC	Daat Cha		
Type: C=Concentration.  Hydric Soil Indicators:	D=Depletion		Indicators for Pi		_		innei. M=Matrix	
Histosol or Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue SV or Pedder
Histic Epipedon (A2)			Alaska Alpine				Underlying Layer	ide 31 of Redder
=			Alaska Redox	, ,			Other (Explain in Remarl	ks)
<ul><li>Hydrogen Sulfide (A4)</li><li>Thick Dark Surface (A</li></ul>			Alaska Nedox	WIGH Z.JT TIC	ic .		· · · · · · · · · · · · · · · · ·	,
Alaska Gleyed (A13)	12)		<sup>3</sup> One indicator of	f hydrophytic	vegetation	n, one prin	nary indicator of wetland h	nydrology,
_			and an appropria	ite landscape	position n	nust be pre	esent	
<ul><li> ☐ Alaska Redox (A14)</li><li> ☐ Alaska Gleyed Pores (</li></ul>	A15)		4 Give details of o	color change	in Remarks	5		
estrictive Layer (if presen	-							
T							Hydric Soil Present	? Yes • No O
Type:								
Depth (inches): emarks:								
Depth (inches):							,	
Depth (inches): emarks:  YDROLOGY								
Depth (inches): emarks:  YDROLOGY Vetland Hydrology Ind							Secondary Indi	cators (two or more are required)
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