## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T108_03
Investig			Landform (hill	side, terrac	e, hummocks etc.): Shoulder slope
-	elief (concave, convex, none): hummocky		Slope:		° Elevation: 717
	on : Interior Alaska Mountains	Lat:	62.884017586		Long.: -148.251511217 Datum: NAD83
_		Lat	02.004017300	9	
	Unit Name:		- V	<u> </u>	NWI classification: PSS3/1B
Are Ve		significantly	? Yes / disturbed? oblematic?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Indeed, explain any answers in Remarks.)
SUMN	ARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
i	Hydrophytic Vegetation Present? Yes   No		_		
	Hydric Soil Present? Yes ● No				pled Area etland? Yes ● No ○
	Vetland Hydrology Present? Yes ● No 🤇		wi	thin a W	etland? Yes Sono C
	ks: shoulder of linear 'island' in swale, slcbe				
	TATION -Use scientific names of plants. L	ist all spe  Absolute  % Cover	cies in the  Dominant Species?	•	Dominance Test worksheet:  Number of Dominant Species
1 ree	Stratum	96 Cover	speciesr_	Status	That are OBL, FACW, or FAC:
2.				-	Total Number of Dominant
3.					Species Across All Strata: 2 (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			П		
-	Total Cover				Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sanl	ing/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	ODL Ossaiss
-					
-	Rhododendron tomentosum	65	<b>✓</b>	FACW	
-	Rhododendron groenlandicum			FAC	FAC Species 60 x 3 = 180 FACU Species 0.1 x 4 = 0.400
-	Betula nana			FAC FAC	UPL Species 0 x 5 = 0
-	Vaccinium uliginosum  Empetrum nigrum	10		FAC	
-	Vaccinium vitis-idaea	5		FAC	Column Totals: <u>151.2</u> (A) <u>361.6</u> (B)
-	Betula glandulosa	· <u> </u>		FAC	Prevalence Index = B/A = 2.392
-	Vaccinium oxycoccos	1		OBL	Hydrophytic Vegetation Indicators:
-	Betula neoalaskana	0.1		FACU	✓ Dominance Test is > 50%
-	Picea mariana	0.1		FACW	✓ Prevalence Index is ≤3.0
-	Total Cover Stratum 50% of Total Cover:		of Total Cover	: 25.24	☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Rubus chamaemorus	25	<b>~</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
					Plot size (radius, or length x width) 10m
		0			% Cover of Wetland Bryophytes
6. ,					(Where applicable)
					% Bare Ground <u>0.1</u>
					Total Cover of Bryophytes 40
1					Hydrophytic
10.		. 25			Vegetation
10.	<b>Total Cover</b> 50% of Total Cover:		of Total Covers	5	Present? Yes • No •

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SOIL Sampling Point: SW13\_T108\_03

Depth ————	Matrix		Re		1	2	<b>Tt</b>	Parrandon.
(inches) Color (n	oist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	<u>Loc</u> 2	Texture  Eibric Organics	Remarks
0-10		100					Fibric Organics	_
10-16		100					Hemic Organics	w some charcoal in matrix
								_
							-	
							-	
Type: C=Concentration.	——————————————————————————————————————	—— —— ≀M=Reduced	Matrix <sup>2</sup> Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	_
lydric Soil Indicators:		I	ndicators for P	roblematic	Hydric Sc	oils:		
Histosol or Histel (A1)			Alaska Color C	hange (TA4)	<b>4</b> )		Alaska Gleyed Without I	Hue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine	swales (TA5)	)		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y Hu	ue		Other (Explain in Rema	rks)
Thick Dark Surface (A1	2)							
Alaska Gleyed (A13)	,						nary indicator of wetland	hydrology,
Alaska Redox (A14)		č	and an appropria	ite ianascape	e position n	nust be pre	esent	
Alaska Gleyed Pores (A	15)	2	<sup>4</sup> Give details of o	color change	in Remark	S		
estrictive Layer (if present	ı:							0 0
							Hydric Soil Present	t? Yes 💿 No 🔾
Type: ice rich frost							,	
Type: ice rich frost Depth (inches): 14 emarks:							,	
Depth (inches): 14							,	
Depth (inches): 14 emarks:  YDROLOGY							,	
Depth (inches): 14 emarks:	ators:						Secondary Inc	licators (two or more are required)
Depth (inches): 14 emarks:  YDROLOGY Vetland Hydrology Indications (any on							Secondary Inc	licators (two or more are required) nined Leaves (B9)
Pepth (inches): 14 emarks:  YDROLOGY Vetland Hydrology Indiviruary Indicators (any on Surface Water (A1)	e is sufficient)		☐ Inundation \		-		Secondary Inc	licators (two or more are required)
Pepth (inches): 14  Pemarks:  YDROLOGY  Yetland Hydrology Indivirimary Indicators (any on Surface Water (A1)  High Water Table (A2)	e is sufficient)			/isible on Aei getated Conc	-		Secondary Inc  Water Sta  Drainage  Oxidized	licators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C
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Pepth (inches): 14  emarks:  YDROLOGY  /etland Hydrology Individual Indicators (any on Surface Water (A1)  High Water Table (A2)  ✓ Saturation (A3)	e is sufficient)		Sparsely Veg Marl Deposit	getated Cond ts (B15) ulfide Odor (	cave Surfac		Secondary Inc  Water Sta  Drainage  Oxidized  Presence  Salt Depo	licators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C: of Reduced Iron (C4)
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