WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13					
Applica	int/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T111_01					
Investigator(s): JER Landform (hillside, terrace, hummocks etc.): Hillside										
	elief (concave, convex, none): concave		Slope:	% / 6.9						
	ion : Interior Alaska Mountains	l at ·	 62.776260495		Long.: -148.145296694 Datum: NAD83					
_	p Unit Name:	Lat	02.770200490		NWI classification: PSS1/3B					
	· -			No ○						
	natic/hydrologic conditions on the site typical for this ti egetation \Box , Soil \Box , or Hydrology \Box	-	tly disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○					
		naturally p	problematic?		ded, explain any answers in Remarks.)					
	• •									
SUMI	MARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.					
	Hydrophytic Vegetation Present? Yes No No		le	the Sam	pled Area					
	Hydric Soil Present? Yes No C	_			/etland? Yes No					
	Wetland Hydrology Present? Yes No C				etialia: 100 o 100 o					
Rema	arks: shallow back slope between knobs, several large	groups ca	aribou, wet hgm	ISS						
VEGE	TATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.						
		Absolute		Indicator	Dominance Test worksheet:					
	e Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)					
1.		0	_ 🔲		Total Number of Dominant					
2.		0	_ 📙		Species Across All Strata: 5 (B)					
3.		0	_		Percent of dominant Species					
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)					
5.		0	_		Prevalence Index worksheet:					
	Total Cover	Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species4 x 1 =4					
1.	Rhododendron tomentosum	15	✓	FACW	FACW Species 22 x 2 = 44					
2.	Vaccinium uliginosum	10	_ 📙	FAC	FAC Species <u>86</u> x 3 = <u>258</u>					
3.	Vaccinium vitis-idaea	10	_	FAC	FACU Species					
	Salix pulchra	5	_ 📙	FACW	UPL Species <u>5</u> x 5 = <u>25</u>					
5.	Empetrum nigrum			FAC	Column Totals: <u>124</u> (A) <u>359</u> (B)					
6.	Cassiope tetragona	5	-	FACU	Prevalence Index = B/A =					
	Betula nana			FAC						
8.	Salix reticulata		- 🖺	FAC UPL	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%					
9.	Dryas ajanensis Andromeda polifolia (IAM)		-	OBL	✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0					
10.	Total Cover			OBL						
Her			_)% of Total Cover	: 19.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)					
1.	Micranthes hieraciifolia	1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)					
2.	Micranthes nelsoniana	1		FAC	¹ Indicators of hydric soil and wetland hydrology must					
3.	Tofieldia pusilla	1		FAC	be present, unless disturbed or problematic.					
4.	Poa arctica	3	✓	FAC	Plot cize (radius or length y width)					
5.	Bistorta plumosa	2	_	FACU						
6.	Festuca altaica	2	_ 📙	FAC	(Where applicable)					
7.	Carex bigelowii	10	_ 💆	FAC	% Bare Ground					
8.	Petasites frigidus	2	-	FACW	Total Cover of Bryophytes					
9.	Pyrola grandiflora		- 📙	FAC						
10.	·	Hydrophytic								
			_	F	vegetation Present? Yes • No •					
-										
4. 5. 6. 7. 8. 9.	Poa arctica Bistorta plumosa Festuca altaica Carex bigelowii Petasites frigidus Pyrola grandiflora Valeriana capitata Total Cover: 50% of Total Cover:	2 2 10 2 2 1 2 1 25 12.5 209	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FAC FAC FAC FAC FAC FAC FAC FAC	Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes 75					

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SOIL

Profile Description: (Description: (Description: (Description: Observative Profile Description: Observative Profile Descriptio

Depth	tion: (Describe to the depth needed to docu Matrix			Redox Feat		u.u.s)				
(inches)	Color (moi	st) %	Color (moi	st) %	Type ¹	Loc ²	Texture	Remarks		
0-10		100					Fibric Organics	organics continue down w few gravel.		
								-		
¹Type: C=Cor	ncentration. D=	Depletion. RM=	Reduced Matrix ²	Location: PL=Poi	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		Indicator	s for Problemati	ic Hydric So	oils: ³				
Histosol or	r Histel (A1)		Alaska	Color Change (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	edon (A2)		Alaska	Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen	Sulfide (A4)		Alaska	☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)						
Thick Dark	Surface (A12)		3.0	and the stands				d de		
Alaska Gle	Alaska Gleyed (A13) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present									
Alaska Red	dox (A14)					•				
Alaska Gle	yed Pores (A15)	Give det	ails of color chang	је іп кетагк	S				
Restrictive Laye	er (if present):									
Type: fros	t						Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 10									
HYDROLO	GY									
Wetland Hyd	rology Indica	tors:					Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)					Water Stai	ned Leaves (B9)		
Surface W	` ,		Inun	dation Visible on A	Aerial Image	ry (B7)		atterns (B10)		
✓ High Wate				sely Vegetated Co	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation	` '			Deposits (B15)				f Reduced Iron (C4)		
☐ Water Ma			_ ′	ogen Sulfide Odor	` '		☐ Salt Depos	` '		
	Deposits (B2)			Season Water Tab	. ,			Stressed Plants (D1) ic Position (D2)		
Drift Depo	or Crust (B4)		☐ Otne	r (Explain in Rema	arks)		✓ Geomorphi ✓ Shallow Ac	` '		
Iron Depo								raphic Relief (D4)		
	oil Cracks (B6)						✓ FAC-neutra			
Field Observa										
Surface Water		Yes O No	Dept	h (inches):						
Water Table F		Yes No		th (inches): 2		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre			Борс	,		11 30.00		- 100 - 110 -		
(includes capi		Yes No	Dept Dept	h (inches): 0						
Describe Recor	ded Data (strea	ım gauge, moni	tor well, aerial pho	tos, previous insp	ection) if ava	ilable:				
Remarks:										

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