## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13				
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T179_04				
	igator(s): WAD, RWM	side, terrac	e, hummocks etc.): hillside						
	relief (concave, convex, none): hummocky		Slope:	% / 2.4	* Elevation: 121				
	gion : Interior Alaska Mountains	Lat:							
		Lat	03.130463734	+ 1					
	ap Unit Name:		- 1/	<u> </u>	NWI classification: Upland				
Are \	√egetation □ , Soil □ , or Hydrology □ i	significantly naturally pr wing sam	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes O No 🖲		1-	the Com	mlad Ausa				
	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 ●					
	arks: relict mineral cored frost features.  ETATION -Use scientific names of plants. Li	•		•	Dominance Test worksheet:				
Tro	ee Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species				
1.		0		<u> </u>	That are OBL, FACW, or FAC: 2 (A)				
2.					Total Number of Dominant				
3.					Species Across All Strata: 4 (B)				
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 50,0% (A/B)				
5.									
	Total Cover				Prevalence Index worksheet:  Total % Cover of: Multiply by:				
Sai	pling/Shrub Stratum 50% of Total Cover:		of Total Cover	. 0	0.00				
. 501									
	Empetrum nigrum		<b>✓</b>	FAC					
2.	Cassiope tetragona		<b>✓</b>	FACU					
3.	Salix polaris	5		FACW					
4.	Vaccinium vitis-idaea	3		FACU FACU					
5.	Loiseleuria procumbens			FACU	Column Totals: <u>85.2</u> (A) <u>275.6</u> (B)				
6. 7.		0			Prevalence Index = B/A = 3.235				
					Undershit Vosetskien Indiesten				
8. 9.		0			Hydrophytic Vegetation Indicators:  Dominance Test is > 50%				
10.		0			Prevalence Index is ≤3.0				
10.	Total Cover								
He	rb Stratum 50% of Total Cover:		6 of Total Cove	: 14.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)				
1.	Festuca altaica	4	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	Anthoxanthum monticola ssp. alpinum	2		UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	Anemone narcissiflora	1		FACU	be present, unless disturbed or problematic.				
4.	Artemisia tilesii	2	✓	FACU	Plot size (radius, or length x width) 10m				
5.	Luzula arcuata	-		FACU	Plot size (radius, or length x width)				
6.	Carex bigelowii	1		FAC	(Where applicable)				
0.	Antennaria monocephala			UPL	% Bare Ground				
7.	·	0.1		OBL	Total Cover of Bryophytes				
7. 8.	Pinguicula vulgaris								
7. 8.	Disputada uniqueta	0							
7. 8.	Pinguicula vulgaris	0			Hydrophytic				
7. 8. 9.	Pinguicula vulgaris	0 0 12.2		2.44	Hydrophytic Vegetation Present?  Yes O No   No				

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SOIL Sampling Point: SW13\_T179\_04

JUIL									Samping	Point: 3W13_1179_04
Profile Descripti	on: (Describe to t		eded to docu	ment the inc				ators)		
Depth	Matrix			Redo		ox Features				
(inches)	Color (moist)		%	Color (moist)		%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
05			100						Fibric Organics	
.5-12	10YR	3/4	100						Sand	
12-18	10YR	4/3	70	5YR	4/6	30			Sandy Loam	
-						-				
						-			-	
1					2		·			
*Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc						nnel. M=Matrix	
Hydric Soil I	ndicators:				ors for Pro		4	oils:		
Histosol or	Histel (A1)				ka Color Ch		-		Alaska Gleyed Without Hu	e 5Y or Redder
Histic Epip	edon (A2)				ka Alpine sv				Underlying Layer	
Hydrogen	Sulfide (A4)			L Alas	ka Redox W	ith 2.5Y H	lue	Ш	Other (Explain in Remarks	·)
	Surface (A12)			3 ∩no i	ndicator of l	ovdrophyti	ic vegetatio	n one prim	nary indicator of wetland hy	drology
Alaska Gle	yed (A13)				appropriate					urology,
Alaska Red	. ,			4 Civo	dotails of so	lor change	in Domark	•		
☐ Alaska Gle	yed Pores (A15	)		Give	details of co	or change	e ili Kemark	5		
Restrictive Laye	er (if present):									
Type: rock									<b>Hydric Soil Present?</b>	Yes O No 💿
Depth (inch	nes):									
Remarks:										
no hydric soil ir	ndicators observ	red								
The Hydric son ii	idicators observ	Cu								
HYDROLO										
Wetland Hydi										ators (two or more are required)
	tors (any one is	sufficient	.)							ed Leaves (B9)
Surface W	` ,				undation Vis		_			itterns (B10)
High Water Table (A2)  Sparsely Vegetated Concave Surface (B8)  Oxidized Rhizospheres along Living Roc								, , ,		
	Saturation (A3) Marl Deposits (B15)								Reduced Iron (C4)	
	Water Marks (B1) Hydrogen Sulfide Odor (C1)							☐ Salt Deposit		
	Deposits (B2)				y-Season W					Stressed Plants (D1)
☐ Drift Depo				∐ Ot	her (Explair	in Remar	·ks)			Position (D2)
	or Crust (B4)								☐ Shallow Aqu	
☐ Iron Depo										raphic Relief (D4)
	oil Cracks (B6)								☐ FAC-neutral	Test (D5)
Field Observa		., (								
Surface Water	Present?	_	No 💿	De	epth (inches	):				
Water Table P	resent?	Yes C	No 💿	De	epth (inches	):		Wetlar	nd Hydrology Present	? Yes ○ No •
Saturation Pre		Yes O	No •	De	epth (inches	):				
(includes capi			manitar	مادة الم	hataa nuusi	aua Inana	ation) if our	ilablar		
Describe Record	ded Data (strea	iii gauge,	momitor we	ы, аепагр	notos, previ	ous inspe	cuon) II ava	iliable:		
Domarko										
Remarks:										
no hydrology indicators observed										
l										

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