## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroe	lectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 01-Aug-13			
Applica	ant/Owner: Alaska Energy Auth	ority				Sampling Point: SW13_T143_01			
Investi	gator(s): WAD, RWM			Landform (hillside, terrace, hummocks etc.): hilltop					
Local r	elief (concave, convex, none):	concave		Slope: 7.0 % / 4.0 ° Elevation: 1098					
Subreg	ion: Interior Alaska Mountains		Lat.:	63.2223634	3.222363472 Long.: -148.218582511 Datum: WGS84				
Soil Ma	p Unit Name:				NWI classification: Upland				
Are V Are V	regetation , Soil ,	or Hydrology	gnificantl aturally pi	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? arks: concave depression on top	Yes ○ No • Yes ○ No •			s the Sam vithin a W	npled Area Vetland? Yes ○ No ●			
<b>VEGE</b>	ETATION - Use scientific na	ames of plants. Lis	t all spe	ecies in the	e plot.				
			Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree	e Stratum		% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.			0			That are OBL, FACW, or FAC:5 (A)  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: (A/B)			
5.		Total Cover:	0 			Prevalence Index worksheet:  Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50	0% of Total Cover:	er: <u>0</u>	OBL Species $0 \times 1 = 0$					
1	Betula nana		5	<b>✓</b>	FAC	FACW Species 7 x 2 = 14			
	Coliv pulobro		5	<b>✓</b>	FACW	FAC Species 74 x 3 = 222			
	Facility of the second		10	<b>~</b>	FAC	FACU Species 15 x 4 = 60			
4.	Manadali in idaa		5	<b>✓</b>	FAC	UPL Species 2 x 5 = 10			
5.	Managhat and Patagonia		3		FAC	Column Totals: 98 (A) 306 (B)			
6.	Cainaga ataunanii		4		FACU				
7.	<u> </u>		0			Prevalence Index = B/A = 3.122			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			Prevalence Index is ≤3.0			
Her	<b>b Stratum</b> 5	<b>Total Cover:</b> 0% of Total Cover:	<u>32</u> 1620%	% of Total Cov	er: <u>6.4</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Festuca altaica		45	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Sedum rosea		4		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Artemisia norvegica		5		FACU	be present, unless disturbed or problematic.			
4.	Anemone narcissiflora		4		FACU	Plot size (radius, or length x width)			
5.					UPL	% Cover of Wetland Bryophytes			
6.					FACU	(Where applicable)			
7.			1		FAC	% Bare Ground			
8.					FACW	Total Cover of Bryophytes			
9.	Carex bigelowii		1		FAC				
10.	Gentianella propinqua	Total Course	0.1		FACU	Hydrophytic			
	50	Total Cover: 33.	<u>66.1</u> .05 20%	of Total Cove	er: <u>13.22</u>	Vegetation Present? Yes ● No ○			
Rem	arks: 10 percent crustose licher	n, carpod 1, and unk lu	ızul. 1						

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SOIL Sampling Point: SW13\_T143\_01

Profile Descripti	ion: (Describe to the depth needed to doc <b>Matrix</b>			ument the indicator or confirm the absence of indicators) <b>Redox Features</b>							
(inches)	Color (n	noist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3			100					Fibric Organics			
3-16	7.5YR	2.5/2	100		_			Sand	large angular cobbles throughout profile.		
									-		
	-						-				
¹Type: C=Cor	ncentration. [	D=Depletion	n. RM=Reduc	ced Matrix <sup>2</sup> Location	on: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>		<del></del>		
				Alaska Color (		4		Alaska Gleyed Without H	lue 5Y or Redder		
	Histosol or Histel (A1) Histic Epipedon (A2)				Alaska Alpine swales (TA5)  Underlying Layer						
	Sulfide (A4)			Alaska Redox With 2.5Y Hue Other (Explain in Remarks)							
	surface (A1)	2)									
Alaska Gle	•	.2)						mary indicator of wetland I	nydrology,		
Alaska Red				and an appropri	ate landscap	pe position i	must be pro	esent			
	eyed Pores (A	15)		4 Give details of	color chang	e in Remark	ks				
Restrictive Laye	er (if present	):									
Type:	( p	,-						Hydric Soil Present	:? Yes ○ No •		
, , , , , , , , , , , , , , , , , , ,	Depth (inches):										
Remarks:											
HYDROLO	GY										
Wetland Hyd		cators:						Secondary Ind	cators (two or more are required)		
Primary Indica	itors (any one	e is sufficier	nt)					Water Stained Leaves (B9)			
Surface W	Surface Water (A1)				Visible on A	erial Image	ery (B7)	☐ Drainage Patterns (B10)			
☐ High Wate	High Water Table (A2)				getated Cor	_		Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposi			. ,	Presence of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen S	ulfide Odor	(C1)		Salt Deposits (C5)			
Sediment	Deposits (B2	2)		Dry-Season				Stunted o	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expl	ain in Rema	rks)		Geomorphic Position (D2)			
Algal Mat	or Crust (B4)	)						Shallow A	quitard (D3)		
☐ Iron Depo	osits (B5)							Microtopo	graphic Relief (D4)		
Surface S	oil Cracks (Be	6)						✓ FAC-neutr	al Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes	) No ●	Depth (inch	ies):						
Water Table F	Present?	Yes	○ No ⊙	Depth (inch	ies):		Wetla	nd Hydrology Preser	nt? Yes O No 💿		
Saturation Pre	esent?	Yes	No ●		,						
(includes capi	llary fringe)			Depth (inch							
Describe Recor	ded Data (st	ream gauge	e, monitor we	ell, aerial photos, pro	evious inspe	ection) if ava	ailable:				
Remarks:											
only one secon	dary hydrolo	gy indicator	observed								
	. ,	-									

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