WETLAND DETERMINATION DATA FORM - Alaska Region

Project	· · · · · · · · · · · · · · · · · · ·		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 03-Jul-13			
	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T125_02			
Investi	gator(s): SLI, SCB		Landform (hillside, terrace, hummocks etc.): Toeslope					
Local r	relief (concave, convex, none): flat		Slope: 0.0	Slope: 0.0 % / 0.0 ° Elevation: 536				
Subreg	gion : Southcentral Alaska	Lat.:	62.93840444	2.938404441 Long.: -149.626110435 Datum: WGS84				
Soil Ma	ap Unit Name:			NWI classification: PEM1E				
Are V	regetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sho	significant naturally p wing sar	tly disturbed? problematic?	(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 No No No Wetland Hydrology Present? Yes No			the Sam ithin a W	ppled Area /etland? Yes [●] No [○]			
VEGE	ETATION - Use scientific names of plants. Li	ist all sp	ecies in the	plot.				
		Absolute	e Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)			
1.		0			Total Number of Dominant			
2.		0			Species Across All Strata: 7 (B)			
3.		0			Percent of dominant Species			
4.		0	_		That Are OBL, FACW, or FAC: 85.7% (A/B)			
5.	Total Cover	0 :0	-		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species 21 x 1 = 21			
1	Andromeda polifolia	1	✓	FACW	FACW Species 2.1 x 2 = 4.2			
2.	Manadada an anna an an		- <u>·</u>	OBL	FAC Species 0 x 3 = 0			
	Spiraea stevenii		- V	FACU	FACU Species 1 x 4 = 4			
4.					UPL Species 0 x 5 = 0			
5.					Column Totals: <u>24.1</u> (A) <u>29.2</u> (B)			
6.								
7.					Prevalence Index = B/A = 1.212			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Her	Total Cover b Stratum 50% of Total Cover:		_ % of Total Cove	r: <u>0.6</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Trichophorum caespitosum	10	~	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Comarum palustre	3	_	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Carex aquatilis	3		OBL	be present, unless disturbed or problematic.			
4.	Carex rotundata	-		OBL	Plot size (radius, or length x width) 10m			
5.	Eriophorum angustifolium		-	OBL	% Cover of Wetland Bryophytes			
6.	Arctagrostis latifolia		-	FACW	(Where applicable)			
7.	Viola epipsila		-	FACW	% Bare Ground			
8.	Drosera anglica	0.1	-	OBL	Total Cover of Bryophytes 80			
9.	Carex rariflora	0.1		OBL				
10.	Trientalis europaea ssp. arctica Total Cover	0.1	-	FAC	Hydrophytic Vegetation			
	50% of Total Cover:		_ % of Total Cover	: 4.28	Present? Yes • No •			
Rem	narks: trace carvag, carsci, carex pauciflora							

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SOIL Sampling Point: SW13_T125_02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)							ators)					
Depth (inches)							1 2	Texture	Remarks			
0-12	Color (mois	it)	<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Hemic Organics	Remarks			
			100		- —			Tierriic Organics				
					-							
					- ——							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for Pi	oblemation	c Hydric So	oils: ³					
Histosol or Histel (A1)				Alaska Color C	hange (TA4	4)		Alaska Gleyed Without H	ue 5Y or Redder			
✓ Histic Epipedon (A2)				Alaska Alpine s	wales (TA5	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y F	lue		Other (Explain in Remark	s)			
☐ Thick Darl	Surface (A12)			_								
Alaska Gle	eyed (A13)			³ One indicator of and an appropria				nary indicator of wetland h	ydrology,			
Alaska Re	dox (A14)			ани ан арргорна	te iaiiuscap	e position i	nust be pre	esent				
Alaska Gle	eyed Pores (A15)			⁴ Give details of c	olor change	e in Remark	S					
Restrictive Laye	er (if present):											
Type: froz	en							Hydric Soil Present	? Yes 💿 No 🔾			
Depth (incl	nes): 12in											
Remarks:												
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)			
Primary Indica	itors (any one is	sufficient)						Water Stained Leaves (B9)				
✓ Surface W	Vater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage P	atterns (B10)			
✓ High Water Table (A2)				Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposit	s (B15)			Presence o	f Reduced Iron (C4)			
☐ Water Ma	☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)							☐ Salt Depos	its (C5)			
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)							☐ Stunted or	Stressed Plants (D1)			
☐ Drift Depo	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							Geomorphi	c Position (D2)			
Algal Mat	or Crust (B4)							✓ Shallow Aq	uitard (D3)			
☐ Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)			
Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Wate	r Present?	Yes 💿	No \bigcirc	Depth (inche	es): 2							
Water Table F	Present?	Yes	No \bigcirc	Depth (inche	-s)· 3		Wetla	nd Hydrology Presen	t? Yes • No O			
Saturation Pre					,			7				
(includes capi		Yes	No O	Depth (inche	es): 2							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:	Kemarks:											

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