WETLAND DETERMINATION DATA FORM - Alaska Region

Borough/City:	Matanuska-Susitna Borough Sampling Da	ite: 31-Jul-13				
	Sampling Point:	SW13_T155_01				
Landform (hills	Landform (hillside, terrace, hummocks etc.): Bench					
Slope: 8.7	% / 5.0 ° Elevation: 1152					
Lat.: 63.202570915	Long.: -148.432478189	Datum: WGS84				
	NWI classification: Up	land				
nificantly disturbed?	Are "Normal Circumstances" present?	Yes No				
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.						
l	Slope: 8.7 Lat.: 63.202570915 of year? Yes (ificantly disturbed? urally problematic?	Landform (hillside, terrace, hummocks etc.): Bench Slope: 8.7 % / 5.0 ° Elevation: 1152 Lat.: 63.202570915 Long.: -148.432478189 NWI classification: Up of year? Yes • No ○ (If no, explain in Remarks.) nificantly disturbed? Are "Normal Circumstances" present? `` urally problematic? (If needed, explain any answers in Remarks)				

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	 Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{eta}$
Remarks: bench or lower slope at head	l of valley.		

VEGETATION - Use scientific names of plants. List all species in the plot.

		Absolute Dominant		Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cove		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant		
3.		0			Species Across All Strata: (B)		
3. 4.			- 🖂		Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)		
4. 5.			- 📙				
5.		0	_		Prevalence Index worksheet:		
Total Cover:					Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =		
1.	Cassiope tetragona	40	\checkmark	FACU	FACW Species <u>6</u> x 2 = <u>12</u>		
2.	Empetrum nigrum	25	\checkmark	FAC	FAC Species <u>42.1</u> x 3 = <u>126.3</u>		
3.	Loiseleuria procumbens			FACU	FACU Species <u>55.1</u> x 4 = <u>220.4</u>		
4.	Vaccinium vitis-idaea			FAC	UPL Species x 5 =0.500		
5.	Salix pulchra	-		FACW	Column Totals: 103.3 (A) 359.2 (B)		
6.	Salix polaris			FACW			
7.	Vaccinium uliginosum			FAC	Prevalence Index = B/A = <u>3.477</u>		
8.	Spiraea stevenii	-		FACU	Hydrophytic Vegetation Indicators:		
9.					✓ Dominance Test is > 50%		
		0			Prevalence Index is ≤3.0		
	Total Cover:	88	-		Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 44					Remarks or on a separate sheet)		
1.	Anthoxanthum monticola ssp. alpinum	3		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Festuca altaica	10	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Antennaria monocephala	0.1		UPL	be present, unless disturbed or problematic.		
4.	Lycopodium clavatum	0.1		FACU	Dist size (radius, ex length y width)		
5.	Anemone narcissiflora	1		FACU	Plot size (radius, or length x width) <u>10m</u>		
6.	Carex bigelowii	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.	Solidago multiradiata	1		FACU	% Bare Ground		
8.		0			Total Cover of Bryophytes		
9.		0			<u>10</u>		
10		0			Hydrophytic		
	Total Cover:	15.3	_		Vegetation		
	50% of Total Cover:			3.06	Present? Yes No		
Remarks: <10% CRUSTOSE LICHEN ON BARE MINERAL SOIL MOUNDS.							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features										
(inches) Color (moist)		ict)	%	Color (moist)				Loc 2	Texture	Remarks
0-2		ist <i>)</i>	100				Туре	LUC	Coarse Sand	Fibric Organics
	10/0	2/1			A/C	20	· ·	N4	Silt Loam	
	10YR	3/1	70	7.5YR	4/6	30	·	M		mixed matrix
7-16	2.5Y	3/1	100						Loamy Sand	subangular coarse fragments 60%
					·					
								-	-	
17.000					2					· ·
* Type: C=Con	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix									
Hydric Soil In	ndicators:				ors for Pro		4	oils:	7	
Histosol or	Histel (A1)				ka Color Cha	• •	,		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)				ka Alpine sw			_	Underlying Layer	
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12)			3 One is	adicator of h	vdrophyti	ic voqotatio	n ono prin	many indicator of wotland h	avdrology.
Alaska Gle	yed (A13)				appropriate				mary indicator of wetland h esent	iyarology,
Alaska Red	ox (A14)							-		
Alaska Gle	yed Pores (A15	5)		4 Give o	letails of col	or change	e in Remark	S		
Restrictive Laye	r (if present):									
Type:	,								Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inch	es):									
Remarks:										
	donth 2 Ev lo	vor probabl	(parant m	atorial cal	or no hudri	e coil india	atore			
rock at variable			y parent n							
HYDROLO										
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)
Primary Indicat	ors (any one is	s sufficient)							Water Stai	ned Leaves (B9)
Surface W	ater (A1)			🗌 In	undation Vis	sible on Ae	erial Imager	у (В7)	Drainage I	Patterns (B10)
🗌 High Wate	r Table (A2)			🗌 Sp	arsely Vege	tated Con	cave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	(A3)			🗌 Ma	arl Deposits	(B15)			Presence of	of Reduced Iron (C4)
🗌 Water Mar	Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)							sits (C5)		
Sediment	Deposits (B2)			Dry-Season Water Table (C2) Stunted or Stressed Plants (D1)						Stressed Plants (D1)
Drift Depo	sits (B3)			Other (Explain in Remarks)						
Algal Mat	Algal Mat or Crust (B4)									quitard (D3)
Iron Depo	sits (B5)								Microtopo	graphic Relief (D4)
Surface So	oil Cracks (B6)								FAC-neutra	al Test (D5)
Field Observa	tions:	0	0							
Surface Water	Present?	Yes \bigcirc	No 🖲	De	epth (inches):				
Water Table P	resent?	Yes \bigcirc	No 🖲	De	epth (inches):		Wetla	nd Hydrology Presen	it? Yes 🔾 No 🖲
Saturation Pre	sent?	Vec O								
Saturation Present? Yes No Pepth (inches):										
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
no hydrology indicators observed										