WETLAND DETERMINATION DATA FORM - Alaska Region

ApplicantiOwner Alaska Energy Authority Sampling Point Sw13 T149_05
Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky Slope: % / 18.6 Elevation: 686 Subregion: Interior Alaska Mountains Lat: 63.3817229267 Long: 148.480742456 Datum: NAD83 NAD83 NAD84 N
Subregion: Interior Alaska Mountains
NWI classification: PSS1B
Are climatic hydrologic conditions on the site typical for this time of year? Yes No (Iff no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly 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. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Indicators
Are Vegetation
State Sampled Area Within a Wetland? Yes No No No Within a Wetland? Yes No No No No No No No N
Wetland Hydrology Present? Yes
Wetland Hydrology Present? Yes ● No ○ Indicator Spruce forest. FREMARKS: northern aspect wetland w near-surface active layer. bound is at toe of slope - wetland swale at toe of slope, transitioning to non-wetland white spruce forest. Free Stratum Dominant Species In the plot. Tree Stratum Dominant Species Indicator Species? Status Dominant Species Intained Dominant Species That are OBL, FACW, or FAC: 5 (A) 1. Picea glauca 5 ✓ FACU FACU Hydrogolical Adaptations 1 Prevalence Index surksheet: Total Cover of: Multiply by: OBL Species 57 x 2 = 114 FACU Hydrogolical Adaptations 1 FACU Hy
Remarks: northern aspect wetland w near-surface active layer. bound is at toe of slope - wetland swale at toe of slope, transitioning to non-wetland white spruce forest. Factor Sapling/Shrub Stratum Solve Status Sapling Shrub Stratum Solve Solve Solve Sapling Shrub Stratum Solve Sol
Name
Absolute Dominant Tridicators Species Status Status Species Status Status Species Status Status Status Species Status Status Status Species Status Status Status Species Status Status Status Status Species Status Stat
1. Picea glauca 5 ✓ FACU That are OBL, FACW, or FAC: 5 (A) 2. 3. 3. 4. 4. 5. 5. 4. 6. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
2. 0 □ Total Number of Dominant Species Across All Strata: 6 (B) 3. □ □ Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B) 5. □ □ Prevalence Index worksheet: Total % Cover of: Multiply by: Sapling/Shrub Stratum 50% of Total Cover: 1 Prevalence Index worksheet: Total % Cover of: Multiply by: 1. Betula nana 10 FAC FACW Species 0 x1 = 0 x1 = 0 2. Rhododendron tomentosum 5 FACW FACW Species 83.1 x3 = 249.3 x3 = 249.3 3. Vaccinium uliginosum 50 ✓ FAC FAC UPL Species 14 x4 = 56 UPL Species 0 x5 = 0 4. Vaccinium vitis-idaea 10 FAC UPL Species 0 x5 = 0 x5 = 0 5. Alnus viridis 5 FAC Column Totals: 154.1 (A) 419.3 (B) (B) 6. Salix pulchra 40 ✓ FACW Prevalence Index = B/A = 2.721 2.721 8. Picea glauca 5 FACU Prevalence Index is
Section Sec
4. 0
Total Cover: Total Cover: Total Cover: Prevalence Index worksheet: Sapling/Shrub Stratum Total Cover: 2.5 20% of Total Cover: 1 Prevalence Index worksheet: Total % Cover of: Multiply by: 0BL Species 0 x 1 = 0 1Betula nana 10 FAC FACW Species 57 x 2 = 114 2BL Species 5 FACW FACW Species 57 x 2 = 114 4BL Vaccinium uliginosum 50 FACW FACU Species 14 x 4 = 56 4BL Vaccinium vitis-idaea 10 FAC UPL Species 0 x 5 = 0 5BL Alnus viridis 5 FAC Column Totals: 154.1 (A) 419.3 (B) 6BL Species 3 x 5 = 0 Column Totals: 154.1 (A) 419.3 (B) 7BL Species 4 x 4 = 56 FACW FACW FACW Prevalen
Total Cover: 5 Total Wooden of: Multiply by: Sapling/Shrub Stratum 50% of Total Cover: 2.5 20% of Total Cover: 1 Total % Cover of: Multiply by: 1. Betula nana 10 FAC FACW Species 57 x 2 = 114 2. Rhododendron tomentosum 5 FACW FACW Species 83.1 x 3 = 249.3 3. Vaccinium uliginosum 50 ✓ FAC FACU Species 14 x 4 = 56 4. Vaccinium vitis-idaea 10 FAC UPL Species 0 x 5 = 0 5. Alnus viridis 5 FAC Column Totals: 154.1 (A) 419.3 (B) 6. Salix pulchra 40 ✓ FACW Prevalence Index = B/A = 2.721 Prevalence Index = B/A = 2.721 8. Picea glauca 5 FACU Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% 10. 0 ✓ Prevalence Index is ≤ 3.0 10. Morphological Adaptations (Provide supporting data in Provide Supporting data in Provide Supporting data in Provides Supporting data in P
Sapling/Shrub Stratum 50% of Total Cover: 2.5 20% of Total Cover: 1 OBL Species 0 x 1 = 0 1. Betula nana 10 FAC FACW Species 57 x 2 = 114 2. Rhododendron tomentosum 5 FACW FACW Species 83.1 x 3 = 249.3 3. Vaccinium uliginosum 50 FAC FAC US Species 14 x 4 = 56 4. Vaccinium vitis-idaea 10 FAC UPL Species 0 x 5 = 0 5. Alnus viridis 5 FAC Column Totals: 154.1 (A) 419.3 (B) 6. Salix pulchra 40 FACW FACW Prevalence Index = B/A = 2.721 2.721 8. Picea glauca 5 FACU Hydrophytic Vegetation Indicators: Dominance Test is > 50% 9. 0 Dominance Test is > 50% Prevalence Index is ≤ 3.0 Prevalence Index is ≤ 3.0
1. Betula nana 10 FAC FACW Species 57 x 2 = 114 2. Rhododendron tomentosum 5 FACW FACW Species 83.1 x 3 = 249.3 3. Vaccinium uliginosum 50 ✓ FAC FACU Species 14 x 4 = 56 4. Vaccinium vitis-idaea 10 FAC UPL Species 0 x 5 = 0 5. Alnus viridis 5 FAC Column Totals: 154.1 (A) 419.3 (B) 6. Salix pulchra 40 ✓ FACW FACW Prevalence Index = B/A = 2.721 Prevalence Index = B/A = 2.721 8. Picea glauca 5 FACU Hydrophytic Vegetation Indicators: 9. 0 Dominance Test is > 50% 10. Prevalence Index is ≤3.0 Morphological Adaptations 1 (Provide supporting data in
2. Rhododendron tomentosum 5
3. Vaccinium uliginosum 4. Vaccinium vitis-idaea 50
4. Vaccinium vitis-idaea 10
5. Alnus viridis 5 FAC Column Totals: 154.1 (A) 419.3 (B) 6. Salix pulchra 40 ✓ FACW Prevalence Index = B/A = 2.721 7. Spiraea stevenii 2 FACU Hydrophytic Vegetation Indicators: 9. Prevalence Index = S/A Dominance Test is > 50% 10. Prevalence Index is ≤ 3.0 Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in
6. Salix pulchra 7. Spiraea stevenii 8. Picea glauca 9. □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
7. Spiraea stevenii 2 FACU 8. Picea glauca 5 FACU 9. 0 Dominance Test is > 50% 10. Total Cover: 127 Morphological Adaptations 1 (Provide supporting data in
9. 0 0 Dominance Test is > 50% \checkmark 10. \checkmark Prevalence Index is ≤ 3.0 \checkmark Morphological Adaptations 1 (Provide supporting data in
10
Total Cover: 127 Morphological Adaptations ¹ (Provide supporting data in
inorphiological Adaptations (Provide supporting data in
1. Bistorta plumosa 2 FACU Problematic Hydrophytic Vegetation (Explain)
2. Rubus chamaemorus 7 FACW 1 Indicators of hydric soil and wetland hydrology must
3. Calamagrostis canadensis 7 FAC be present, unless disturbed or problematic.
4. Petasites frigidus 5 FACW Plot size (radius, or length x width) 10m
5. Cornus suecica 1 FAC % Cover of Wetland Bryophytes (Where applicable)
(Wildle applicable)
7
Total Cover of Bryophiyes 90
Total Cover: 22.1 Vegetation
50% of Total Cover: 11.05 20% of Total Cover: 4.42 Present? Yes • No
Remarks: sparse lichen cover - 2%.

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SOIL Sampling Point: SW13_T149_05

		the depth no	eeded to docu	ment the indicator or co	onfirm the ab		ators)			
Depth Color (mo				Color (moist)	% Type	Type ¹	1 Loc 2	Texture	Remarks	
0-5	5YR	3/3	100			-75-		Fibric Organics		
5-15	5YR	3/1	100					Sapric Organics	pretty high amount of mineral content (silt)	
- 313								Suprice Organics	pretty high amount of mineral content (sitt)	
-										
¹Type: C=Co	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: ³			
Histosol o	r Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder						
✓ Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remark	s)	
☐ Thick Darl	k Surface (A12	2)		•						
Alaska Gle	eyed (A13)			³ One indicator of and an appropria	f hydrophyl te landscar	tic vegetation	n, one prin	nary indicator of wetland h	ydrology,	
Alaska Red	dox (A14)					·	•	CSCIIC		
Alaska Gle	eyed Pores (A1	.5)		⁴ Give details of o	olor chang	e in Remark	is .			
Restrictive Laye	er (if present):									
Type: acti	ve layer							Hydric Soil Present	? Yes • No O	
Depth (incl	nes): 15									
HYDROLO	GY									
Wetland Hyd		ators:						Secondary Indi	cators (two or more are required)	
Primary Indica			t)					Water Stained Leaves (B9)		
Surface V	Vater (A1)			☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)		
High Water Table (A2)				☐ Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)				Presence o	f Reduced Iron (C4)	
☐ Water Ma	ırks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)	
Sediment	Deposits (B2))		Dry-Season	Water Tabl	e (C2)		Stunted or Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		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?		No 💿	Depth (inche	es):					
Water Table F	Present?	Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pre		Yes C	No •	Depth (inche	es):					
		eam gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:			
						,				
Remarks:										
soils moist but	not saturated									

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