WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority Investigator(s): SLI, EAC Local relief (concave, convex, none): hummocky Slope: % / 1.8 ° Elevation: 676 Subregion: Interior Alaska Mountains Lat.: 63.3749414681 Long.: -148.901735066 Datum: NAD83 Soil Map Unit Name: NWI classification: Upland Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Investigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Flat Local relief (concave, convex, none): hummocky Slope: % / 1.8 ° Elevation: 676 Subregion: Interior Alaska Mountains Lat.: 63.3749414681 Long.: -148.901735066 Datum: NAD83 Soil Map Unit Name: NWI classification: Upland Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If 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.)
Local relief (concave, convex, none): hummocky Slope: % / 1.8 ° Elevation: 676 Subregion: Interior Alaska Mountains Lat.: 63.3749414681 Long.: -148.901735066 Datum: NAD83 Soil Map Unit Name: Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
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Soil Map Unit Name: Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology insturably problematic? Are Vegetation , Soil , or Hydrology insturably problematic? Are Vegetation , Soil , or Hydrology insturably problematic? NWI classification: Upland (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No
Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology instruments in a significantly disturbed? Are Vegetation , Soil , or Hydrology instruments in a significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers 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.)
Hydrophytic Vegetation Present? Yes No No Is the Sampled Area
within a Wetland? Yes \cup No \bullet
Wetland Hydrology Present? Yes No V
VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Species? Status Tree Stratum Species? Status Dominance Test worksheet: Number of Dominant Species
That are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant
3 Species Across Air Strata.
Percent of dominant Species That Are ORL FACY or FAC: 90.004 (A/R)
5
Total Cover: 10 Prevalence Index worksheet: Total % Cover of: Multiply by:
Sealing (Should Street up 50% of Total Cover: 5 20% of Total Cover: 3
EACW Species 15 x 2 = 20
FAC Species County
E ACH Creation and a second and
3. Betula nana 0.1 FAC FACU Species 17.1 x 4 = 68.40 4. Vaccinium uliginosum 7 FAC UPL Species 0 x 5 = 0
- Vaccinian diginocani
5. Empetrum nigrum 10 Y FAC Column Totals: 93.2 (A) 281.7 (B) 6. Salix pulchra 1 FACW
7. Rhododendron tomentosum 7 Prevalence Index = B/A = 3.023
8. Vaccinium vitis-idaea 3 FAC Hydrophytic Vegetation Indicators:
9
10.
Total Cover: 65.1 Morphological Adaptations (Provide supporting data in
Herb Stratum 50% of Total Cover: 32.55 20% of Total Cover: 13.02 Remarks or on a separate sheet)
1. Rubus chamaemorus 2 FACW Problematic Hydrophytic Vegetation (Explain)
2. Petasites frigidus 5 FACW ¹ Indicators of hydric soil and wetland hydrology must
3. Carex bigelowii 10 FAC be present, unless disturbed or problematic.
4. Cornus canadensis O.1 FACU Plot size (radius, or length x width) 10m
5. Calamagrostis canadensis 1 FAC % Cover of Wetland Bryophytes
6 (Where applicable)
7
8 O Total Cover of Bryophytes50
9.
10 O Hydrophytic
Total Cover: 18.1 Vegetation
50% of Total Cover: 9.05 20% of Total Cover: 3.62 Present? Yes No

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SOIL Sampling Point: SW13 T212 05

Profile Descript	ion: (Describe to		eded to docum	ent the inc				cators)			
Depth		1atrix		Redox Features							
(inches)	Color (mo		<u>%</u>	Color (m	noist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-2		2/2	100						Fibric Organics		
2-19		4/2	80	2.5Y		20	C	M	Silty Clay Loam		
			-			-		-			
						-		-			
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	d Matrix	² Location	: PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:											
Histosol o	r Histel (A1)			Alas	ka Color Ch	ange (TA4	1)4		Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epip	Histic Epipedon (A2)					Alaska Alpine swales (1A5)				Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue Uther					Other (Explain in Remark	s)	
Thick Darl	k Surface (A12)			3.0:		الم رما مرمية رام				advalant.	
Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) and an appropriate landscape position must be present											
☐ Alaska Redox (A14)											
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks											
Restrictive Lay	er (if present):										
Type: active layer, si cl lo Hydric Soil Present? Yes O No								? Yes ○ No •			
Depth (incl	hes): 21, 2										
Remarks:											
'Sweating' of silty clay horizon.											
No hydric soil indicators.											
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:							_Secondary Indic	ators (two or more are required)	
Primary Indica	ators (any one i	s sufficient)							ned Leaves (B9)	
Surface V		Inundation Visible on Aerial Imagery (B7)				ry (B7)	☐ Drainage P	atterns (B10)			
High Wat		☐ Sparsely Vegetated Concave Surface (B8)				ce (B8)	Oxidized Rh	nizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					Presence of	Reduced Iron (C4)	
☐ Water Ma	Hydrogen Sulfide Odor (C1)					Salt Deposi	ts (C5)				
Sediment	Sediment Deposits (B2)					Vater Table	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Dep	osits (B3)			☐ Ot	ther (Explain	n in Remar	rks)		Geomorphi	c Position (D2)	
	or Crust (B4)								Shallow Aq	` '	
Iron Depo									_	raphic Relief (D4)	
	ioil Cracks (B6)							П	☐ FAC-neutra	Test (D5)	
Field Observa			🝙								
Surface Wate	r Present?		No 💿	De	epth (inches	s):					
Water Table F	Present?	Yes \bigcirc	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Present	t? Yes 💿 No 🔾	
Saturation Pro (includes capi		Yes •	No O	De	epth (inches	s): 2					
Describe Recor	rded Data (stre	am gauge,	monitor well,	, aerial p	hotos, prev	ious inspe	ction) if ava	ailable:			
Remarks:											
	3-t212-05, silty	clay loam a	ppears to ha	ave perch	ned rainwat	er.					
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