WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority
Investigator(s): CTS, EKJ
Local relief (concave, convex, none): filat Slope: % / 5.3 ° Elevation: 567 Subregion: Southcentral Alaska Lat: 62.6906382044 Long:: -148.922235816 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 in anturally 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 Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Mo Metland Hydrology Present? Yes No Mo Metland? Yes No Metland Hydrology Present? Yes No Mo Metland? Yes No Metland? Yes No Metland Hydrology Present? Yes No Metland Hydrology Present? Yes No Mo Metland? Yes No Metland? Yes No Metland Hydrology Present? Yes No Mo Metland Hydrology Present? Yes No Mo Metland Hydrology Present? Yes No Metland Hydrology Present? Yes No Mo Metland Hydrology Present? Yes No Metland Hydrology Present? Yes No Mo Metland Hydrology Present? Yes No Mo Metland? Yes No Metland Hydrology Present? Yes No Mo Metland Hydrology Pres
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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. Hydrophytic Vegetation Present? Yes No Hydrology Present? Yes No Wetland Present? Yes No Wetland? Yes No Wetland? Yes No Present?
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 Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Mo Wetland? Yes No Mo Mo Mo Mo Mo Mo Mo Mo Mo
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes
Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Femarks: Stob w large openings dominated by Fesalt, Vaculi VEGETATION - Use scientific names of plants. List all species in the plot. Absolute
Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland? Ye
Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Remarks: Stob w large openings dominated by Fesalt, Vaculi VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum
Wetland Hydrology Present? Yes No Pesalt, Vaculi No Pesalt
VEGETATION - Use scientific names of plants. List all species in the plot. Note
Absolute % Cover Species? Status 1. Picea glauca 2. Picea mariana Absolute % Cover Species? Status FACU FACW Dominant Indicator Species Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) FACW FACW FACW FACW FACW FACW FACW Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (B)
Absolute
Absolute % Cover Species? Indicator Status 1. Picea glauca 2. Picea mariana Absolute % Cover Species? Status FACU FACU FACU FACW Dominant Indicator Species Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (B)
Absolute bominant Indicator Species? Status 1. Picea glauca 2. Picea mariana Absolute bominant Species? Status FACU FACU FACU FACW FACW FACW FACW FACW Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (B)
1. Picea glauca 2. Picea mariana 2. Picea mariana 2. Picea mariana 3. (A) 4. Total Number of Dominant Species Across All Strata: 3. (B)
1. Picea glauca 2. Picea mariana 2. FACU Total Number of Dominant Species Across All Strata: 3. (B)
2. Picea mariana
^
Percent of dominant species
4
Prevalence Index worksheet:
Souther (Shouth Streeture 50% of Total Cover: 1.5 20% of Total Cover: 0.5
1. Vaccinium uliginosum 50 FAC FACW Species 5 x 2 = 10
2. Betula glandulosa 25 ✓ FAC FAC Species 128 x 3 = 384 3. Vaccinium vitis-idaea 3 FAC FACU Species 25 x 4 = 100
Vaccinam vito laca
5 Photodoctorial 2
C. Empetrum pigrum
7. Vaccinium caespitosum 1 FAC Prevalence Index = B/A = 3.127
8. Salix fuscescens 1 FACW Hydrophytic Vegetation Indicators:
9
10
Total Cover: 87 Morphological Adaptations (Provide supporting data in
<u>Herb Stratum</u> 50% of Total Cover: <u>43.5</u> 20% of Total Cover: <u>17.4</u> Remarks or on a separate sheet)
1. Festuca altaica 40 FAC Problematic Hydrophytic Vegetation (Explain)
2. Cornus canadensis
3. Chamaenerion angustifolium 10 FACU be present, unless disturbed or problematic.
4. Rubus arcticus 7 FAC Plot size (radius, or length x width) 10m
5. Calamagrostis canadensis
6 (Where applicable)
7
8
9
Total Cover: 68 Vegetation
50% of Total Cover: 34 20% of Total Cover: 13.6 Present? Yes • No
Remarks: total tree cover <5% thus no dominant tree species

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SOIL Sampling Point: SW12_T91_04

Profile Description			eeded to doc	ment the indicator or co			ators)			
Depth (inches)				Redox Featur			. 2	Texture	Domarke	
(inches) 0-2	Color (mo	ist)	<u>%</u> 100	Color (moist)	_%_	Type ¹	Loc ²	Fibric Organics	Remarks	
								Hemic Organics	150/	
2-5			85	-					15% roots	
5-7	7.5YR	3/1	100					Silt Loam	few roots	
7-9	7.5YR	2.5/3	100					Loamy Sand	few roots	
9-12	7.5YR	2.5/2	100					Loamy Sand	few roots	
12-19	10YR	3/4	100					Loamy Sand		
									· 	
¹Type: C=Con	centration. D=	Depletion	ı. RM=Redu	ced Matrix ² Location	n: PL=Poi	re Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³										
Histosol or Histel (A1) Alaska Color Change (TA4)								Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remarl	ks)	
Thick Dark	Surface (A12))		30	la				or adverte and	
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 Laye	r (if present):									
Type: Hydric Soil Present? Yes O No •									? Yes O No 💿	
Depth (inch	es):									
Remarks:										
no hydric soil in	dicators									
HYDROLOGY										
		tore:						Cocondany Indi	icators (two or more are required)	
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)								Secondary Indicators (two or more are required) Water Stained Leaves (B9)		
Surface W		5 54	,	Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)		
	r Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)		
Saturation				Marl Deposits (B15)				Presence of Reduced Iron (C4)		
☐ Water Mai				Hydrogen Sulfide Odor (C1)				Salt Deposits (C5)		
	Deposits (B2)			Dry-Season Water Table (C2)				_	Stressed Plants (D1)	
☐ Drift Depo	sits (B3)		Other (Explai				Geomorph	ic Position (D2)		
Algal Mat or Crust (B4)								Shallow Aquitard (D3)		
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)										
	oil Cracks (B6)								al Test (D5)	
Field Observa	tions:									
Surface Water	Present?	Yes) No ●	Depth (inche	s):					
Water Table P	resent?	Yes 🤇	No ●	Depth (inche	s):		Wetlar	nd Hydrology Presen	nt? Yes O No 💿	
Saturation Pre (includes capil		Yes C	No •	Depth (inche	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
no wetland hyd	rology indicato	ors								
i e										

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