## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority  Alaska Energy Authority  Landform (hillside, terrace, hummocks etc.): Hillside  Local relief (concave, convex, none): hummocky  Slope: % / 24.4 ° Elevation: 687  Subregion: Southcentral Alaska  Lat.: 62.7872641916  Long.: -148.811239739  Datum: NAD8  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 instinction in aturally problematic?  Are Vegetation , Soil , or Hydrology instination in naturally problematic?  (If needed, explain any answers in Remarks.)	4		
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Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation  , Soil  , or Hydrology  naturally problematic?  Are Vegetation  , Soil  , or Hydrology  naturally problematic?  (If no, explain in Remarks.)  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   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 Sign Is the Sampled Area			
Hydric Soil Present? Tes No S	_		
Wetland Hydrology Present? Yes No  No  Within a Wetland?			
VEGETATION - Use scientific names of plants. List all species in the plot.  Absolute Dominant Indicator Dominance Test worksheet:			
Tree Stratum % Cover Species? Status Number of Dominant Species			
1. Picea glauca  O.1 FACU  That are OBL, FACW, or FAC:  2 (F	.)		
2. Betula neoalaskana 0.1 FACU Species Across All Strata: 2 (E	5)		
3 Percent of dominant Species			
	/B)		
5 O Prevalence Index worksheet:			
Total Cover: Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover: $0.1$ 20% of Total Cover: $0.04$ OBL Species $0$ x 1 = $0$			
1. Vaccinium uliginosum 60 FAC FACW Species 0 x 2 = 0			
2. Betula glandulosa 20 FAC Species 91 x 3 = 273			
3. Empetrum nigrum 5 FACU Species 3.3 x 4 = 13.2			
4. Vaccinium vitis-idaea			
5. Betula nana         2         FAC         Column Totals: 94.3 (A)         286.2	(B)		
6. Rhododendron groenlandicum  2  Prevalence Index = B/A =3.035_			
7			
8 Hydrophytic Vegetation Indicators:			
9			
Treductice fluck is 25.0			
Total Cover: 91	in		
1. Chamaenerion angustifolium 2 FACU Problematic Hydrophytic Vegetation (Explain)			
2. Cornus canadensis 1 FACU   1 Indicators of hydric soil and wetland hydrology must			
3. Trientalis europaea O.1 EACU be present, unless disturbed or problematic.			
4 O Plot size (radius, or length x width)			
5 % Cover of Wetland Bryophytes			
6 (Where applicable)			
7			
or			
9			
Total Cover: 3.1 Hydropnytic Vegetation			
50% of Total Cover: 1.55 20% of Total Cover: 0.62 Present? Yes No •			
Remarks: Trace salix sp. No tree or herb dominants, as less than 5% total cover in each layer.			

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SOIL Sampling Point: SW12\_T29\_04

0-7 7-10 10Y 10-11 7.5Y	or (moist) R 4/2	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
7-10 10Y 10-11 7.5Y	R 4/2					LUC		
10-11 7.5Y	R 4/2						Fibric Organics	
		90					Sandy Clay	10% fine gravel
11.14	'R 3/3	90					Loamy Sand	10% fine gravel
11-14 2.5Y	'R 2.5/3	90					Loamy Sand	5% subangular cobbles 1-2 in diam.
14-18							Angular cobbles	Large 5-6 in long
								Large 5 6 in long
¹Type: C=Concentration	on. D=Depletion				_		nnel. M=Matrix	•
Hydric Soil Indicator	rs:		Indicators for P	roblematio	Hydric So	oils: <sup>3</sup>		
Histosol or Histel (	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histic Epipedon (AZ		Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen Sulfide (	,		Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	(S)
Thick Dark Surface	. ,		3 One indicator of	f hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	vydrology
Alaska Gleyed (A13	-		and an appropria					ydi ology,
Alaska Redox (A14			4 Give details of	color change	in Remark	S		
Alaska Gleyed Pore								
Restrictive Layer (if pres	sent):						Hydric Soil Present	? Yes ○ No •
Depth (inches):							nyuric Son Present	r res C NO G
IYDROLOGY								
Wetland Hydrology I		-4\						cators (two or more are required)
Primary Indicators (any Surface Water (A1		IIL)						ned Leaves (B9)
High Water Table	•	☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)				☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3)		
Saturation (A3)			icave Suriac	.е (во)		of Reduced Iron (C4)		
□ Saturation (A3)           □ Marl Deposits (B15)             □ Water Marks (B1)           □ Hydrogen Sulfide Odor (C1)							☐ Salt Depos	• •
Sediment Deposits (B2)  Dry-Season Water Table (C2)							Stressed Plants (D1)	
Drift Deposits (B3)			Other (Expl				Geomorph	ic Position (D2)
Algal Mat or Crust	(B4)				-,		Shallow Ac	juitard (D3)
☐ Iron Deposits (B5)							Microtopog	graphic Relief (D4)
Surface Soil Cracks	s (B6)						FAC-neutra	l Test (D5)
Field Observations:								
Surface Water Present	? Yes	○ No ⊙	Depth (inch	es):				
Water Table Present?	Yes	○ No ●	Depth (inch	es):		Wetlar	nd Hydrology Presen	t? Yes 🔾 No 🖲
Saturation Present? (includes capillary fring	ge) Yes	○ No ●	Depth (inch	es):				
	stream gauge	e, monitor well,	aerial photos, pro	evious inspe	ction) if ava	ilable:		
Describe Recorded Data								
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