## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority  Investigator(s): CTS, EKJ  Local relief (concave, convex, none): flat  Slope: % / 4.3 ° Elevation: 562  Subregion: Southcentral Alaska  Lat: 62.6879482038  Long: -148.921565817  Datum: NAD83  Soil Map Unit Name:  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 attractively resent? 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 Vettand Hydrology Prese									
Investigator(s): CTS, EKJ Landform (hillside, terrace, hummocks etc.): Footslope  Local relief (concave, convex, none): flat Slope: % / 4.3 ° Elevation: 562  Subregion: Southcentral Alaska Lat.: 62.6879482038 Long.: -148.921565817 Datum: NAD83  Soil Map Unit Name: NWI classification: PSS1B  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 insufficiantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology insufficiantly 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 Within a Wetland? Yes No Within a Wetland?									
Local relief (concave, convex, none): flat Slope: % / 4.3 ° Elevation: 562  Subregion: Southcentral Alaska  Lat.: 62.6879482038  Long.: -148.921565817  Datum: NAD83  Soil Map Unit Name:  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.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Vestand Hydrology Present? Yes Yes No Vestand Hydrology Present? Yes Yes No Vestand Hydrology Present? Yes Yes Yes No Vestand Hydrology Present? Yes									
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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  significantly disturbed?  Are Vegetation  , Soil  , or Hydrology  naturally problematic?  Are Vegetation  , Soil  , or Hydrology  naturally problematic?  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes  No  State No  No  State No  State No  State No  State No  State No  No  State No  State No  No  State No  No  State No  No  No  State No  State No  No  State No  State No  No  State No  State No  State No  State No  No  State No  State No  State No  State No  State No  No  State No  St									
Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significantly disturbed?  Are "Normal Circumstances" present? Yes No Contact Normal Circumstances in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Contact Normal Circumstances in Remarks.)  Is the Sampled Area within a Wetland? Yes No Contact Normal Circumstances in Remarks.)									
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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 Wetland Hydrology Present?  Yes  No  Within a Wetland? Yes  No									
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  No  No  Is the Sampled Area within a Wetland?  Yes  No  No  Wetland Present?									
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No Soil Sthe Sampled Area  within a Wetland?  Yes No Soil Sthe Sampled Area  within a Wetland?									
Hydric Soil Present?  Wetland Hydrology Present?  Yes No No Wetland?  Yes No No Wetland?  Is the Sampled Area within a Wetland?  Yes No									
Wetland Hydrology Present? Yes No Within a Wetland? Yes No No									
Wetland Hydrology Present? Yes   No   No   Wetland Hydrology Present?									
Remarks: Fnwbs w dense willow understory									
VEGETATION - Use scientific names of plants. List all species in the plot.									
Absolute Dominant Indicator Dominance Test worksheet:									
Tree Stratum									
1. Picea mariana 15 FACW That are OBL, FACW, or FAC: 5 (A)									
2									
3. Percent of dominant Species									
4 That Are OBL, FACW, or FAC: 100.0% (A/B)									
5. Prevalence Index worksheet:									
Total Cover: 15 Total % Cover of: Multiply by:									
Sapling/Shrub Stratum 50% of Total Cover: 7.5 20% of Total Cover: 3 OBL Species 11 x 1 = 11									
1. Salix pulchra 35 ✓ FACW Species 68 x 2 = 136									
2 Saliy bardayi 30 ✓ FAC Species 157 x 3 = 471									
3. Vaccinium uliginosum 30  ▼ FAC FACU Species 2 x 4 = 8									
4. Betula nana 8									
5. Vaccinium vitis-idaea 3 Column Totals: 238 (A) 626 (B									
6. Rhododendron tomentosum 2 FACW									
7. Empetrum nigrum 2 Prevalence Index = B/A = 2.630									
8 Hydrophytic Vegetation Indicators:									
9									
10 0									
<b>Total Cover:</b> 110									
Herb Stratum 50% of Total Cover: 55 20% of Total Cover: 22 Remarks or on a separate sheet)									
1. Equisetum arvense 80 FAC Problematic Hydrophytic Vegetation (Explain)									
2. Comarum palustre  10  OBL  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.									
5. Valiguisorba cariadorisis									
4. Rumex arcticus  7. Compus consideration  9. FAC Plot size (radius, or length x width)  10m 10m									
5. Cornus canadensis  2									
7. Dubia chamacamaria									
2. Colomographic consideration									
Total Cover of Bryophytes 80									
Details finding									
10. Petasites frigidus									
50% of Total Cover:									
Remarks:									

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SOIL Sampling Point: SW12\_T91\_02

		the depth ne	eded to docume	ent the indicator or cor	nfirm the ab		cators)			
(inches)	Depth (inches) Color (moist)		%	Color (moist)	% т	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
0-5			85					Fibric Organics	15% roots	
5-12			 85		-			Hemic Organics	15% roots	
12-18	10VD	2/2	80					Silt Loam		
12-10	10YR	2/2						SIIL LUGIII	20% Rounded-ang cobble-gravel	
					- ——					
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix										
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>			
Histosol or	r Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder						
✓ Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	L	Other (Explain in Remark	<b>(S)</b>	
☐ Thick Darl	k Surface (A12)	ı		30 1 11 11 16					ļ	
Alaska Gle	Alaska Gleyed (A13)  Alaska Gleyed (A13)  3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present									
Alaska Red	dox (A14)					•	•	COCITE		
Alaska Gleyed Pores (A15)  4 Give details of color change in Remarks										
Restrictive Laye	er (if present):									
Type:	<b></b>							Hydric Soil Present	? Yes ● No O	
Depth (inch Remarks:	nes):									
HYDROLO	GY									
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one i	s sufficient	:)					Water Stained Leaves (B9)		
	Vater (A1)			Inundation Visible on Aerial Imagery (B7)					Patterns (B10)	
✓ High Wate	` ,			Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)	
✓ Saturation	. ,			☐ Marl Deposits (B15)				Presence of Reduced Iron (C4)		
☐ Water Ma				✓ Hydrogen Su				☐ Salt Depos		
	Deposits (B2)		☐ Dry-Season V					Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	n in Rema	rks)			ic Position (D2)	
	or Crust (B4)								quitard (D3)	
☐ Iron Depo	` ,								graphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa		Voc C	No 💿	Dth (inche						
Surface Water				Depth (inche	s):				(2) (	
Water Table F			No 🔾	Depth (inche	.s): 6		Wetla	nd Hydrology Presen	t? Yes • No O	
Saturation Pre (includes capi		Yes •	No O	Depth (inche	s): 3					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										

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