## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority   Landform (hillside, terrace, hummocks etc.): Kettle
Subregion   Southcentral Alaska   Lat:   62.7861299082   Long:   -148.811389969   Datum:   WGS84
Subregion:         Southcentral Alaska         Lat:         62.7861299082         Long:         -148.811389969         Datum:         WGS84           Soil Map Unit Name:         NWI classification:         PS31E           Are climatic/hydrologic conditions on the site typical for this time of year?         Yes ● No ○ (If no, explain in Remarks.)         Are "Normal Circumstances" present? Yes ● No ○ Are "Normal Circumstances" present? Yes ● No ○ (If needed, explain any answers in Remarks.)           Are Vegetation □ , Soil □ , or Hydrology □ alturally problematic?         (If needed, explain any answers in Remarks.)           SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Is the Sampled Area within a Wetland?           Hydrophytic Vegetation Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Is the Sampled Area within a Wetland?         Yes ● No ○ Is the Sampled Area within a Wetland?           Wetland Hydrology Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Is the Sampled Area within a Wetland?         Yes ● No ○ Is the Sampled Area within a Wetland?           Free Stratum         Absolute % Cover Species?         No □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
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 No, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil No, 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 Sutland Hydrology Present
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation Soil On Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil On 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 Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wolland Hydrology Present? Yes Sanction Hydrology Present? Yes Sanction Hydrology Pr
Are Vegetation
Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No
Wetland Hydrology Present? Yes No No Within a Wetland? Yes No No Wetland Hydrology Present? Yes No
Remarks: kettle wetland. drainages from adjacent alder community (see SW12_T29_14) run into and through this wetland.    VEGETATION - Use scientific names of plants. List all species in the plot.    Tree Stratum
VEGETATION - Use scientific names of plants. List all species in the plot.           Interestratum         Absolute % Cover (Scatus)         Dominant Species (Status)         Number of Dominant Species (Number of Dominant
VEGETATION - Use scientific names of plants. List all species in the plot.           Interestratum         Absolute % Cover (Scatus)         Dominant Species (Status)         Number of Dominant Species (Number of Dominant
Absolute   Dominant   Indicator   Species?   Status     Dominant   Species   Status   Number of Dominant Species   That are OBL, FACW, or FAC:   4 (A)
Absolute   Dominant   Indicator   Species?   Status     Dominant   Species   Status   Number of Dominant Species   That are OBL, FACW, or FAC:   4 (A)
Number of Dominant Species   That are OBL, FACW, or FAC:   4   (A)
The statum         That are OBL, FACW, or FAC:         4         (A)           1.         0         □         Total Number of Dominant Species Across All Strata:         4         (B)           3.         0         □         Percent of dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           5.         0         □         Prevalence Index worksheet:         Total % Cover of:         Multiply by:           Sapling/Shrub Stratum         50% of Total Cover:         0         20% of Total Cover:         0         OBL Species         18         x 1 = 18           1.         Dasiphora fruticosa         15         ✓         FAC         FACW Species         12         x 2 = 24           2.         Betula nana         7         FAC         FAC         FAC Species         59         x 3 = 177           3.         Vaccinium uliginosum         10         FAC         FACU Species         1         x 4 = 4           4.         Salix pulchra         10         FAC         UPL Species         0         x 5 = 0           5.         Salix reticulata         5         FAC         Column Totals:         90         (A)         223         (B)
1.
2.
4.
5.
Total Cover:         One         Prevalence Index worksheet:           Total % Cover of:         Multiply by:           50% of Total Cover:         0         20% of Total Cover:         0         OBL Species         18         x 1 = 18           1. Dasiphora fruticosa         15         ✓         FAC         FACW Species         12         x 2 = 24           2. Betula nana         7         FAC         FAC Species         59         x 3 = 177           3. Vaccinium uliginosum         10         FAC         FACU Species         1         x 4 = 4           4. Salix pulchra         10         FACW         UPL Species         0         x 5 = 0           5. Salix reticulata         5         FAC         Column Totals:         90         (A)         223         (B)
Sapling/Shrub Stratum       50% of Total Cover:       0       20% of Total Cover:       0       DBL Species       18       x 1 =       18         1. Dasiphora fruticosa       15       ✓       FAC       FACW Species       12       x 2 =       24         2. Betula nana       7       FAC       FAC       FAC Species       59       x 3 =       177         3. Vaccinium uliginosum       10       FAC       FACU Species       1       x 4 =       4         4. Salix pulchra       10       FACW       UPL Species       0       x 5 =       0         5. Salix reticulata       5       FAC       Column Totals:       90       (A)       223       (B)
1. Dasiphora fruticosa  1. Dasiphora fruticosa  2. Betula nana  7
1. Daspiroral nutrices       13       Image: Control nutrices       13       Image: Control nutrices       14       FAC       FAC Species       59       x 3 =       177         3. Vaccinium uliginosum       10       FAC       FACU Species       1       x 4 =       4         4. Salix pulchra       10       FACW       UPL Species       0       x 5 =       0         5. Salix reticulata       5       FAC       Column Totals:       90       (A)       223       (B)
3. Vaccinium uliginosum  10 FAC  FACU Species 1 x 4 = 4  4. Salix pulchra  10 FACW  UPL Species 0 x 5 = 0  5. Salix reticulata  5 FAC  Column Totals: 90 (A) 223 (B)
4. Salix pulchra  10  FACW  UPL Species  0
5. Salix reticulata  5 FAC Column Totals: 90 (A) 223 (B)
C Soliv glaves
6 Salividanca 20 EAC
Prevalence Index = B/A = 2 478
7
8 Hydrophytic Vegetation Indicators:
9
10.
Total Cover: 67 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Equisetum fluviatile 3 OBL Problematic Hydrophytic Vegetation (Explain)
2. Comarum palustre 5 1 Indicators of hydric soil and wetland hydrology must
3. Carex utriculata OBL be present, unless disturbed or problematic.
4. Viola palustris  1 FACW Plot size (radius, or length x width) 10m
5. Sanguisorba officinalis 1 FACW % Cover of Wetland Bryophytes
6. Thalictrum sparsiflorum 1 FACU (Where applicable)
7. Anemone richardsonii 1 FAC % Bare Ground 25
8. Rubus arcticus ssp. acaulis <u>FAC</u> Total Cover of Bryophytes
$\frac{9}{0}$
10 Hydropnytic
Total Cover:23
Remarks: trace picgla. no seed head on carex, but large yellow-green leaves in shallow water, assume carutr. possibly also caraqu, as some leaves

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SOIL Sampling Point: SW12\_T29\_15

Depth	M	atrix		cument the indicator or confirm the absence of indicators)  Redox Features				
(inches)	Color (mois	t) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
								_
								_
								•
								-
	-	<del></del>						
Type: C=Cor		enletion RM=	=Reduced Matrix <sup>2</sup> Loc	ration: PI =Po	e Lining RC	=Root Chai	nnel M=Matrix	
ydric Soil I		ерісцоп. кіч-	Indicators fo				inei. Pi-Piduix	
-					4	ліэ. П	Alacka Clayed Without F	lue 5V or Pedder
Histosol or Histel (A1) Histic Epipedon (A2)				Alaska Color Change (TA4) Alaska Alpine swales (TA5)			<ul> <li>Alaska Gleyed Without Hue 5Y or Redder</li> <li>Underlying Layer</li> </ul>	
_	Sulfide (A4)			dox With 2.5Y	,	<b>✓</b>	Other (Explain in Remar	ks)
¬ ′ ັ	Surface (A12)			.0 2.0 .				,
Alaska Gle	. ,						nary indicator of wetland I	hydrology,
Alaska Rec			and an appro	priate landsca	pe position i	must be pre	sent	
_	yed Pores (A15)		<sup>4</sup> Give details	of color chang	e in Remark	(S		
strictive Laye	er (if present):							
Type:							<b>Hydric Soil Present</b>	:? Yes • No O
Depth (inch	nes):							
emarks: soil pit due t		r throughout s	site. assume hydric soil	due to primar	y hydrology	indicators a	and hydrophytic vegetatio	n.
		r throughout s	site. assume hydric soil	due to primar	y hydrology	indicators a	and hydrophytic vegetatio	n.
soil pit due t	so standing water	-	site. assume hydric soil	due to primar	y hydrology	indicators a	and hydrophytic vegetatio	n.
soil pit due t	o standing wate	ors:	site. assume hydric soil	due to primar	y hydrology	indicators a	_Secondary Ind	icators (two or more are required)
OROLO etland Hydrimary Indica	GY rology Indicate	ors:					Secondary Ind Water Sta	icators (two or more are required) ined Leaves (B9)
/DROLO etland Hydirimary Indica	GY rology Indicate tors (any one is later (A1)	ors:	Inundati	on Visible on A	nerial Image	ry (B7)	Secondary Ind  Water Sta  Drainage	icators (two or more are required) ined Leaves (B9) Patterns (B10)
TDROLO etland Hydi imary Indica  Surface W  High Wate	GY rology Indicate tors (any one is /ater (A1) er Table (A2)	ors:	☐ Inundati ☐ Sparsely	on Visible on A	nerial Image	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C
OROLO etland Hydr imary Indica Surface W High Wate Saturation	GY rology Indicate tors (any one is /ater (A1) er Table (A2)	ors:	☐ Inundati ☐ Sparsely ☐ Marl Dep	on Visible on A Vegetated Co posits (B15)	verial Image	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
FOROLO etland Hydr imary Indica Surface W High Wate Saturation Water Mai	GY rology Indicate tors (any one is /ater (A1) er Table (A2) n (A3) rks (B1)	ors:	Inundati Sparsely Marl Dep Hydroge	on Visible on A Vegetated Co posits (B15) n Sulfide Odor	verial Image ncave Surfac (C1)	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence G  Salt Depos	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5)
COROLO  etland Hydr  rimary Indica  Surface W  High Wate  Saturation  Water Mai  Sediment	GY rology Indicate tors (any one is later (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	ors:	Inundati Sparsely Marl Dep Hydroge Dry-Sea:	on Visible on A Vegetated Co posits (B15) n Sulfide Odor son Water Tab	ncave Surfac (C1) le (C2)	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence Salt Depoi	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
CDROLO etland Hydrimary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo	GY rology Indicate tors (any one is /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3)	ors:	Inundati Sparsely Marl Dep Hydroge Dry-Sea:	on Visible on A Vegetated Co posits (B15) n Sulfide Odor	ncave Surfac (C1) le (C2)	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence of Salt Depose Stunted oo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2)
CDROLO etland Hydrimary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo	GY rology Indicate tors (any one is later (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)	ors:	Inundati Sparsely Marl Dep Hydroge Dry-Sea:	on Visible on A Vegetated Co posits (B15) n Sulfide Odor son Water Tab	ncave Surfac (C1) le (C2)	ry (B7)	Secondary Ind  Water Sta  Drainage Oxidized F Presence Salt Depos Stunted or Geomorph Shallow A	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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VDROLO etland Hydr rimary Indica ✓ Surface W ✓ High Water ✓ Saturation ─ Water Man ─ Sediment ─ Drift Depo ─ Algal Mat ─ Iron Depo ─ Surface Se eld Observa	GY rology Indicate tors (any one is /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) oil Cracks (B6) attions:	ors:	Inundati Sparsely Marl Dep Hydroge Dry-Seas	on Visible on A Vegetated Co posits (B15) n Sulfide Odor son Water Tab	ncave Surfac (C1) le (C2)	ry (B7)	Secondary Ind  Water Sta  Drainage Oxidized F Presence Salt Depoi Stunted or Geomorph Shallow Ar	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
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YDROLO  Yetland Hydirimary Indica  Y Surface W  High Wate  Saturation  Water Man  Sediment  Drift Depo  Algal Mat  Iron Depo  Surface So  Seld Observa  Surface Water  Water Table P  Saturation Pre includes capil  escribe Record	GY rology Indicate tors (any one is later (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) oil Cracks (B6) ations: Present? ersent? ersent? elsent? elsent? elsent? elsent? elsent? elsent?	Yes No No No Yes No	Inundati Sparsely Marl Dep Hydroge Dry-Sea: Other (E	on Visible on A Vegetated Co posits (B15) In Sulfide Odor Son Water Tab Explain in Remainanches): 8 Inches): 0 Inches): 0 Inches): 0 Inches): 0	nerial Image ncave Surfact (C1) le (C2) arks)	wetlar	Secondary Ind  Water Sta  Drainage Oxidized F Presence of Salt Depoil Stunted of Geomorph Shallow Ad Microtopo FAC-neutro	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
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