WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority Sampling Point Sampling Po
Local relief (concave, convex, none)
Lat. 62.667414308 Lat. 62.6674144308 Lat. 62.6674144308 Lat. 62.6674144308 Lat. 62.6674144308 Lat. 62.667414444 Lat. 62.66744444 Lat. 62.667444444 Lat. 62.667444444 Lat. 62.667444444 Lat. 62.6674444444 Lat. 62.66744444444 Lat. 62.6674444444444444444444444444444444444
Subregion Copper River Basin
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 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 Within a Wetland? Yes No No No No No No No No
Are Vegetation
Are Vegetation
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present? Yes ● No ○
Hydric Soil Present? Yes ● No
Wetland Hydrology Present? Yes
Wetland Hydrology Present? Yes ● No Use scientific names of plants. List all species in the plot. VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum Absolute % Cover % Cover Dominant Species? Status Indicator Status Dominant Species That are OBL, FACW, or FAC: 6 (A) A. A. Columnant Species Across All Strata: 6 (B) B. Columnant Species Across All Strata: 6 (B) Columnant Species Across All Strata: 5
VEGETATION - Use scientific names of plants. List all species in the plot. Interestratum Absolute % Cover 9% Cover 9% Cover 1.0 Picea mariana Dominant Species 7% Pac.W Packers 1.0 Packers
Tree Stratum Absolute % Cover % Cover Dominant Species 7 that are OBL, FACW, or FAC: 1 a
Tree Stratum Absolute % Cover % Cover Dominant Species 7 that are OBL, FACW, or FAC: 1 are obligation of the obligation of t
Tree Stratum Absolute % Cover % Cover Dominant Species 7 that are OBL, FACW, or FAC: 1 are obligation of the obligation of t
Nominance Nomi
Tree Stratum % Cover Species? Status That are OBL, FACW, or FAC: 6 (A) 1. Picea mariana 25 ✓ FACW 2. Salix pulchra 0
1. Pice mariana
2.
3.
4
5. Total Cover: 0 Prevalence Index worksheet: Total Cover: 25 Prevalence Index worksheet: Total % Cover of: Multiply by: 0BL Species 1.1 x 1 = 1.1 1. Betula nana 15 ✓ FAC FACW Species 67.1 x 2 = 134.2 2. Salix pulchra 15 ✓ FACW FACW Species 67.4 x 3 = 202.2 3. Rhododendron tomentosum 5 FACW FACW FACU Species 0 x 4 = 0 4. Empetrum nigrum 2 FAC UPL Species 0 x 5 = 0 5. Vaccinium uliginosum 10 FAC Column Totals: 135.6 (A) 337.5 (B) 6. Salix reticulata 0.1 FAC FACW Prevalence Index = B/A = 2.489 8. Vaccinium vitis-idaea 0.1 FAC PAC Dominance Test is > 50%
Sapling/Shrub Stratum Total Cover: 25 Total % Cover of: Multiply by: 1. Betula nana 15 ✓ FAC FACW Species 67.1 x 2 = 134.2 2. Salix pulchra 15 ✓ FACW FACW Species 67.1 x 3 = 202.2 3. Rhododendron tomentosum 5 FACW FACU Species 0 x 4 = 0 0 4. Empetrum nigrum 2 FAC UPL Species 0 x 5 = 0 0 x 5 = 0 5. Vaccinium uliginosum 10 FAC Column Totals: 135.6 (A) 337.5 (B) 6. Salix reticulata 0.1 FAC Prevalence Index = B/A = 2.489 2.489 8. Vaccinium vitis-idaea 0.1 FAC Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
Sapling/Shrub Stratum 50% of Total Cover: 12.5 20% of Total Cover: 5 OBL Species 1.1 x 1 = 1.1 1. Betula nana 15 ✓ FAC FACW Species 67.1 x 2 = 134.2 2. Salix pulchra 15 ✓ FACW FACW Species 67.1 x 3 = 202.2 3. Rhododendron tomentosum 5 FACW FACW FACU Species 0 x 4 = 0 4. Empetrum nigrum 2 FAC UPL Species 0 x 5 = 0 5. Vaccinium uliginosum 10 FAC Column Totals: 135.6 (A) 337.5 (B) 6. Salix reticulata 0.1 FAC FACW Prevalence Index = B/A = 2.489 8. Vaccinium vitis-idaea 0.1 FAC Hydrophytic Vegetation Indicators: 9. Alnus viridis 0.1 FAC Dominance Test is > 50%
1. Betula nana 15 ✓ FAC FACW Species 67.1 x 2 = 134.2 2. Salix pulchra 15 ✓ FACW FACW Species 67.1 x 3 = 202.2 3. Rhododendron tomentosum 5 FACW FACU Species 0 x 4 = 0 4. Empetrum nigrum 2 FAC UPL Species 0 x 5 = 0 5. Vaccinium uliginosum 10 FAC Column Totals: 135.6 (A) 337.5 (B) 6. Salix reticulata 0.1 FAC 7. Picea mariana 20 ✓ FACW 8. Vaccinium vitis-idaea 0.1 FAC 9. Alnus viridis 0.1 FAC Image: All public viridis Image: All public viridis Image: All public viridis
2. Salix pulchra 15 ✓ FACW FACW FAC Species 67.4 x 3 = 202.2 3. Rhododendron tomentosum 5 FACW FACW FACU Species 0 x 4 = 0 4. Empetrum nigrum 2 FAC UPL Species 0 x 5 = 0 5. Vaccinium uliginosum 10 FAC Column Totals: 135.6 (A) 337.5 (B) 6. Salix reticulata 0.1 FAC Prevalence Index = B/A = 2.489 7. Picea mariana 20 FACW FACW Hydrophytic Vegetation Indicators: 9. Alnus viridis 0.1 FAC Dominance Test is > 50%
3. Rhododendron tomentosum 5 FACW FACU Species 0 x 4 = 0 4. Empetrum nigrum 2 FAC UPL Species 0 x 5 = 0 5. Vaccinium uliginosum 10 FAC Column Totals: 135.6 (A) 337.5 (B) 6. Salix reticulata 0.1 FAC Prevalence Index = B/A = 2.489 7. Picea mariana 20 FACW FACW Hydrophytic Vegetation Indicators: 9. Alnus viridis 0.1 FAC Dominance Test is > 50%
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5. Vaccinium uliginosum 6. Salix reticulata 7. Picea mariana 8. Vaccinium vitis-idaea 9. Alnus viridis 10 FAC FAC FAC FAC FAC FAC FAC FA
6. Salix reticulata 7. Picea mariana 8. Vaccinium vitis-idaea 9. Alnus viridis 9. Alnus viridis 9. Salix reticulata 0.1
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9. Alnus viridis 0.1 FAC Dominance Test is > 50%
40. Arctour rubor
10. Arctous ruber
Total Cover: 82,3
Herb Stratum 50% of Total Cover: 41.15 20% of Total Cover: 16.46 Remarks or on a separate sheet)
1. Rubus chamaemorus 1 FACW Problematic Hydrophytic Vegetation (Explain)
2. Equisetum sylvaticum 10 FAC 1 Indicators of hydric soil and wetland hydrology must 2 Carey higelowii 15 FAC 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Calex bigelowii
4. Carex pauciflora Trickenham accesites we accesite with a second structure of the struct
5. Trichophorum caespitosum 0.1 General Petasites frigidus OBL (Where applicable)
Complete applicable)
9. Podicularia labradaria
Total cover of bryophytes
<u> </u>
Total Cover: 28 3 Vegetation
50% of Total Cover:14.15 20% of Total Cover:5.66 Present? Yes • No •
Remarks:

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T101_05

1-12 2.5Y 4/2 90 10Y 4/2 10 RM PL 10YR 4/4 10 RM PL 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 10YP; C-Concentration. D=Depletion. RM=Reduced Radiation. RM=Reduced R	(inches) Col	r (moist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
+mottle	0-1								Hemic Organics	_
Type: C=Concentration. D=Depletion. RM=Reduced Matrix **Location: PL=Pore Lining. RC=Root Channel. M=Matrix **Works off Indicators:	1-12 2.5	4/2	90	10Y	4/2	10	RM	PL	Silty Clay Loam	gleyed pores
ydric Soil Indicators: Histosol or Histel (A1)	+mottle			10YR	4/4	10	RM	PL		
ydric Soil Indicators: Histosol or Histel (A1)										
ydric Soil Indicators: Histosol or Histel (A1)										_
ydric Soil Indicators: Histosol or Histel (A1)										
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ydric Soil Indicators: Histosol or Histel (A1)									-	_
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Histosol or Histel (A1) Alaska Color Change (TAA) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer (Explain in Remarks) Present Contact (Ba)	vdric Soil Indicato	s:		Indicate	ors for Pro	blematic	Hydric So	oils: ³		
Histic Epipedon (A2) Hydrogen Sulfide (A4)	-						4		Alaska Gleved Without I	Hue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Type: silty day loam Depth (inches): 1 Type: silty day loam Depth (inches): 2 Type: silty day loam Depth (inches): 2 Type: silty day loam Depth (inches): 2 Type: silty day loam Depth (inches): 0 Type: s	- `	•								
Alaska Gloyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Gloyed Pores (A15) Alaska Gloyed Pores (A15) Type: silty day loam Depth (inches): 1 Marks: **Gree details of color change in Remarks** **Hydric Soil Present? Yes • No **No **Present? Yes • No **Depth (inches): 2 **Present? Yes • No **Depth (inches): 0 **Present? Yes • No **Depth		•		Alas	ka Redox W	ith 2.5Y H	ue		Other (Explain in Rema	rks)
Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) Alaska Gleyed Pores (A15) Alaska Redox (A15) Alaska Redox (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Remarks Alaska Gleyed Poresent? Alaska Gleyed Color Change in Remarks Alaska Gleyed Color Poresent? Alask	Thick Dark Surface	(A12)								
Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Redox (A15) Alaska	Alaska Gleyed (A13)								hydrology,
### Secondary Indicators (two or more are require imarks: ### Secondary Indicators (two or more are require imarks (B1) ### Sour Across (B2) ### Deposits (B3) ### Algal Mat or Crust (B4) ### Indicators (B3) ### Algal Mat or Crust (B4) ### Indicators (B3) ### Indicators (B4) ### Indicators (bwo or more are require imager) ### Water Maria (B10) ### Dariange Patterns (B10) ### Dariange P	_ `					-	•			
Type: sitty clay loam Depth (inches): 1 marks: Proport Park Park	Alaska Gleyed Pore	s (A15)		· Give u	letalis of co	ioi change	: III Kelliai k	.5		
Depth (inches): 1 marks: DROLOGY Estand Hydrology Indicators: Secondary Indicators (two or more are require imary Indicators (any one is sufficient) Water Stained Leaves (B9) Drainage Patterns (B10) Water Stained Leaves (B9) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Saturation (A3) Hydrogen Sulfide Odor (C1) Salt Deposits (C5) Dry-Season Water Table (C2) Vestinated or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Algal Mat or Crust (B4) Vestinated Stresses (B6) Vestinated or Stresses (B6) Vestinated (D3) Vestinated (D3) Vestinated (D3) Vestinated (D3) Vestinated (D4) Vestinated (D3) Vestinated (D4) Vestinated (D5) Vestinated (strictive Layer (if pre	ent):								
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□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ eld Observations: □ urface Water Present? Yes □ No □ Depth (inches): 2 □ Vater Table Present? Yes □ No □ Depth (inches): 0 □ Depth (inches): 0 □ Wetland Hydrology Present? Yes □ No □ Depth (inches): 0	**Marks: **DROLOGY etland Hydrology I imary Indicators (and **Surface Water (A1 High Water Table **Saturation (A3)	one is sufficie	nt)	☐ Sp ☐ Ma	arsely Vege Irl Deposits	etated Con (B15)	cave Surfac		Water Sta	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
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escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	PROLOGY etland Hydrology I Etland High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack eld Observations: urface Water Present Vater Table Present?	one is sufficient A2) (B2) (B4) (B6) Yes	No ○No ○	Sp Ma Hy Dr Ott	arsely Vege Irl Deposits drogen Suli y-Season W her (Explain epth (inches	etated Con (B15) fide Odor (/ater Table n in Reman	cave Surfact (C1) e (C2)	ce (B8)	Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo FAC-neutr	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Coof Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) equitard (D3) ographic Relief (D4) ral Test (D5)
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rface water in scattered depressions . mineral layer appears impermeable	PROLOGY etland Hydrology I imary Indicators (any Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack eld Observations: urface Water Present Vater Table Present? aturation Present? includes capillary frince	one is sufficient A2) (B2) (B4) (B6) Yes (Yes (Yes)	No ○No ○No ○No ○	Sp Ma Hy Ott	arsely Vege Irl Deposits drogen Sult y-Season W ther (Explain Epth (inches Epth (inches Epth (inches	etated Con (B15) fide Odor (/ater Table in in Reman s): 2	cave Surfac (C1) e (C2) ks)	Wetla	Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo FAC-neutr	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Coof Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) equitard (D3) ographic Relief (D4) ral Test (D5)

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