WETLAND DETERMINATION DATA FORM - Alaska Region

| Applicant/Owner: Alaska Energy Authority Investigator(s): CTS, AMD Landform (hillside, terrace, hummocks etc.): Flat Local relief (concave, convex, none): flat Slope: % / 0.9 ° Elevation: 658 Subregion: Interior Alaska Mountains Lat: 63.3922986982 Long: -148.509063601 Datum: NAI Soil Map Unit Name: NWI classification: Upland | _01 | | | | |
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| | 700 | | | | |
| | | | | | |
| 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 Signature No Signa | | | | | |
| Hydric Soil Present? Tes O No O | | | | | |
| Wetland Hydrology Present? Yes No Within a Wetland? | | | | | |
| VEGETATION - Use scientific names of plants. List all species in the plot. About Province Test worksheet: | | | | | |
| Absolute Dominant Indicator Tree Stratum | | | | | |
| 1. Picea glauca 40 FACU That are OBL, FACW, or FAC: 3 | (A) | | | | |
| 2. Populus balsamifera 5 Total Number of Dominant Species Across All Strata: 5 | (B) | | | | |
| | (D) | | | | |
| 4. Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% | (A/B) | | | | |
| | | | | | |
| Total Cover: 45 Prevalence Index worksheet: Total % Cover of: Multiply by: | | | | | |
| Sapling/Shrub Stratum 50% of Total Cover: 22.5 20% of Total Cover: 9 OBL Species 0 x 1 = 0 | | | | | |
| EACW Species 14 × 2 = 20 | | | | | |
| TAC Coories 400 W 2 7 TAC | | | | | |
| Z. Guill Succidy: | | | | | |
| C. Hood defeation | | | | | |
| | | | | | |
| Column Totals. <u>546</u> (A) <u>1161</u> | (B) | | | | |
| 6. Salix arbusculoides 10 FACW 7. Salix pseudomonticola 5 Prevalence Index = B/A = 3.394 | | | | | |
| | | | | | |
| | | | | | |
| 9. Dasiphora fruticosa 8 ☐ FAC Dominance Test is > 50% | | | | | |
| 10. Empetrum nigrum 5 | | | | | |
| Herb Stratum 50% of Total Cover: 85 20% of Total Cover: 34 Remarks or on a separate sheet) | | | | | |
| 1. Cornus canadensis 40 FACU Problematic Hydrophytic Vegetation (Explain) | | | | | |
| 2. Astragalus alpinus15FAC1 Indicators of hydric soil and wetland hydrology must | | | | | |
| 3. Lupinus polyphyllus 25 FAC be present, unless disturbed or problematic. | | | | | |
| 4. Mertensia paniculata 3 FACU Plot size (radius, or length x width) 10m | | | | | |
| 5. Artemisia tilesii 2 FACU % Cover of Wetland Bryonhytes | - | | | | |
| 6. Solidago lepida 5 FACU (Where applicable) | - | | | | |
| 7. Rubus arcticus (IAM) 2 FACU % Bare Ground 0 | _ | | | | |
| 8. Sanguisorba canadensis 2 FACW Total Cover of Bryophytes 30 | _ | | | | |
| 9. Equisetum arvense 35 FAC | | | | | |
| 10. Chamaenerion angustifolium 4 FACU Hydrophytic | | | | | |
| Total Cover: 133 Vegetation 50% of Total Cover: 66.5 20% of Total Cover: 26.6 Present? Yes No | | | | | |
| Remarks: Lichen = 0, Ortsec = 0.1, Calcan = 2 | | | | | |

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SOIL Sampling Point: SW13_T165_01

| | ion: (Describe to t | the depth ne | eded to docu | ment the ind | | firm the abs | | cators) | | | | |
|-------------------------------------------------------------------------------------------------------|------------------------------|--------------|--------------|-------------------------------------------|--------------|--------------|-------------------|---------------------------|------------------------------------------------------|-----------------------------------|--|--|
| Depth (inches) | | | % | Color (moist) | | % | Type ¹ | Loc ² | Texture | Remarks | | |
| 0-3 | | | | | | | | | Hemic Organics | | | |
| 3-7 | 5Y | 3/2 | 100 | | | | | | Silt Loam | | | |
| 7-8 | 10YR | | 100 | | | | | - | Silt Loam | | | |
| | | | | 7 FVD | 416 | 10 | | | | | | |
| 8-20 | 2.5Y | 3/1 | 90 | 7.5YR | 4/6 | 10 | C | M | Silt Loam | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ¹Type: C=Con | ncentration. D= | Depletion. | RM=Reduc | | | | | | annel. M=Matrix | | | |
| Hydric Soil In | ndicators: | | | | | | c Hydric So | oils: | _ | | | |
| Histosol or | r Histel (A1) | | | Alaska Color Change (TA4) | | | | | Alaska Gleyed Without Hue 5Y or Redder | | | |
| Histic Epip | edon (A2) | | | | ka Alpine sv | | - | | Underlying Layer | | | |
| | Sulfide (A4) | | | ☐ Alask | a Redox W | ith 2.5Y F | lue | | Other (Explain in Remark | s) | | |
| | Surface (A12) | | | 3 One ir | dicator of h | hvdrophyt | ric vegetatic | n one prir | mary indicator of wetland h | vdrology | | |
| Alaska Gle | | | | and an | appropriate | e landscap | pe position r | must be pr | esent | ydrology, | | |
| Alaska Red | dox (A14) eyed Pores (A15 | 3 | | 4 Give d | etails of co | lor change | e in Remark | (S | | | | |
| Restrictive Laye | | 7 | | | | | | | | | | |
| Type: | ci (ii picoc). | | | | | | | | Hydric Soil Present? Yes ○ No • | | | |
| Depth (inch | nes): | | | | | | | | Tryuric Jon 1 1000 | : 163 0 110 0 | | |
| Remarks: | , | | | | | | | | | | | |
| | | | | | | | | | | | | |
| HYDROLO | | | | | | | | | | | | |
| Wetland Hydr | rology Indica | tors: | | | | | | | Secondary Indic | cators (two or more are required) | | |
| | itors (any one is | s sufficient |) | | | | | Water Stained Leaves (B9) | | | | |
| Surface W | | | | Inundation Visible on Aerial Imagery (B7) | | | | | Drainage Patterns (B10) | | | |
| High Water Table (A2) | | | | Sparsely Vegetated Concave Surface (B8) | | | | ce (B8) | Oxidized Rhizospheres along Living Roots (C3) | | | |
| Saturation (A3) | | | | Marl Deposits (B15) | | | | | ☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5) | | | |
| Water Mai | | | | | drogen Sulf | | | | | | | |
| | Deposits (B2) | | | | y-Season W | | . , | | | Stressed Plants (D1) | | |
| ☐ Drift Depo | or Crust (B4) | | | ∟ Ott | ner (Explain | ı in Rema | rks) | | | ic Position (D2) | | |
| Iron Depo | , , | | | | | | | | Shallow Aq | ıraphic Relief (D4) | | |
| | oil Cracks (B6) | | | | | | | | FAC-neutra | | | |
| Field Observa | | | | | | | | | I AC IICada | 1 1651 (123) | | |
| Surface Water | | Yes C | No • | De | pth (inches | :): | | | | | | |
| Water Table P | | | No • | | . ` | • | | Wetla | nd Hydrology Presen | t? Yes ○ No • | | |
| Saturation Pre | | | | | pth (inches | • | | 1100 | ilu ilyalology | t: 163 C 110 C | | |
| (includes capil | | Yes ∪ | No 💿 | De | pth (inches | s): | | | | | | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | |
| no wetland hydrology indicators | | | | | | | | | | | | |
| no medana mya | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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