WETLAND DETERMINATION DATA FORM - Alaska Region

| roject | t/Site: Susitna-Watana Hydroe | lectric Project | E | Borough/City: | Matanusk | a-Susitna Borough Sampling Date: 26-Aug- | -15 | | |
|----------------|------------------------------------|---------------------------------------|-----------------------------|-----------------------------|-------------------|---|--------|--|--|
| Applica | ant/Owner: Alaska Energy Auth | ority | | | | Sampling Point: SW15_T309 | _01 | | |
| nvesti | gator(s): JGK | • | | Landform (hil | lside, terrac | e, hummocks etc.): Hillside | | | |
| ocal r | relief (concave, convex, none): | hummocky | | Slope: 36.3 | 3 % / 20.0 |) ° Elevation: | | | |
| Subrec | gion: Interior Alaska Mountains | , | Lat.: | | | Long.: Datum: WG | S84 | | |
| | ap Unit Name: | | | | | NWI classification: Upland | | | |
| | matic/hydrologic conditions on the | aita tuminal for this t | ima af vaar | -2 Voc | ● No ○ | (If no, explain in Remarks.) | | | |
| Are V Are V | /egetation ☐ , Soil ☐ , o | or Hydrology or Hydrology | significantl naturally p | y disturbed? roblematic? | Are "N (If nee | ormal Circumstances" present? Yes No ded, explain any answers in Remarks.) s, transects, important features, etc. | | | |
| | Hydrophytic Vegetation Present? | Yes No | | | | | | | |
| | Hydric Soil Present? | Yes O No 🤄 | | | | npled Area Vetland? Yes ○ No ● | | | |
| | Wetland Hydrology Present? | Yes O No 🤄 | | W | ithin a W | etland? Yes UNO S | | | |
| Rema | arks: Somewhat undulating | | | | | | | | |
| EGE | ETATION -Use scientific na | mes of plants. L | ist all spe | | plot. | Dominance Test worksheet: | | | |
| Tre | e Stratum | | % Cover | | Status | Number of Dominant Species That are OBL, FACW, or FAC: 3 | (A) | | |
| 1. | | | | | | Total Number of Dominant | (/1) | | |
| 2. | | | | | | Species Across All Strata: 3 | (B) | | |
| 3. | | | | | | Percent of dominant Species | | | |
| 4. | | | | | | That Are OBL, FACW, or FAC:100.0% | (A/B) | | |
| 5. | | | | | | Prevalence Index worksheet: | | | |
| _ | | Total Cover | | | | Total % Cover of: Multiply by: | | | |
| Sap | ling/Shrub Stratum 50 | % of Total Cover: | 0 20% | of Total Cover | :0 | OBL Species 0 x 1 = 0 | - | | |
| 1. | Betula glandulosa | | 60 | ✓ | FAC | FACW Species 15 x 2 = 30 | - | | |
| 2. | Vaccinium uliginosum | | 50 | ✓ | FAC | FAC Species 130 x 3 = 390 | - | | |
| 3. | Rhododendron tomentosum | | 15 | | FACW | FACU Species 2 x 4 = 8 | - | | |
| 4. | | | | | FAC | UPL Species <u>0</u> x 5 = <u>0</u> | - | | |
| 5. | | | | | FAC | Column Totals: <u>147</u> (A) <u>428</u> | (B) | | |
| 6. | Rosa acicularis | | | | FACU | Prevalence Index = B/A =2.912_ | | | |
| 7. 8 | | | - 0 | | | Under the Verentation Tudicators | | | |
| 0. | | | | П | | Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% | | | |
| | | | 0 | | | ✓ Prevalence Index is ≤3.0 | | | |
| | | Total Cover 0% of Total Cover: | | % of Total Cove | r: <u>28.2</u> | Morphological Adaptations (Provide supporting di Remarks or on a separate sheet) | ata in | | |
| 1. | Cornus suecica | | 5 | ✓ | FAC | Problematic Hydrophytic Vegetation (Explain) | | | |
| 2. | Cooperilan lividum | | | | FACU | ¹ Indicators of hydric soil and wetland hydrology must | | | |
| 3. | | | 0 | | | be present, unless disturbed or problematic. | | | |
| 4. | - | | 0 | | | Plot size (radius, or length x width)10m | | | |
| 5. | | | 0 | | | % Cover of Wetland Bryophytes 0 | | | |
| | | | | | | (Where applicable) | | | |
| | | | | | | % Bare Ground2 | | | |
| | | | _ | | | Total Cover of Bryophytes1 | _ | | |
| | | | • | | | | | | |
| 10. | | | | | | Hydrophytic | | | |
| | 50 | Total Cover: % of Total Cover: | | of Total Cover | . 12 | Vegetation Present? Yes No ○ | | | |
| | | | | | | | | | |

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SOIL Sampling Point: SW15_T309_01

| 0-2 2-8 8-9 9-13 | ators: :el (A1) n (A2) de (A4) face (A12) | 5/3 3/6 Depletion. RN | 75 1 4=Reduced | OYR 4/6 Matrix ² Loca | | Type 1 | _Loc_2 | Fibric Organics Hemic Organics Sapric Organics Silt Loam Loamy Sand | Some ash mostly ash and charcoal some charcoal and ash | |
|---|--|-----------------------------|-------------------|-----------------------------------|-----------------|----------------|----------------|---|---|--|
| 2-8 8-9 9-13 13-20 Type: C=Concent lydric Soil Indica Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surl Alaska Gleyed (Alaska Redox (| tration. D= ators: tel (A1) in (A2) de (A4) face (A12) | 3/6 Depletion. RN | 1=Reduced | Matrix ² Loca | | | M | Hemic Organics Sapric Organics Silt Loam | mostly ash and charcoal | |
| 8-9 9-13 13-20 Type: C=Concent Iydric Soil Indica Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surf Alaska Gleyed (Alaska Redox (| tration. D= ators: tel (A1) in (A2) de (A4) face (A12) | 3/6 Depletion. RN | 1=Reduced | Matrix ² Loca | | | M | Sapric Organics Silt Loam | mostly ash and charcoal | |
| 9-13 13-20 Type: C=Concent Iydric Soil Indication Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surf Alaska Gleyed (Alaska Redox (| tration. D= ators: tel (A1) in (A2) de (A4) face (A12) | 3/6 Depletion. RN | 1=Reduced | Matrix ² Loca | | | M | Silt Loam | - | |
| Type: C=Concent Iydric Soil Indica Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surl Alaska Gleyed (Alaska Redox (| tration. D= ators: tel (A1) in (A2) de (A4) face (A12) | 3/6 Depletion. RN | 1=Reduced | Matrix ² Loca | | | M | | - | |
| Type: C=Concent Iydric Soil Indica Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surf Alaska Gleyed (Alaska Redox (| ration. D= ators: tel (A1) to (A2) de (A4) face (A12) | Depletion. RN | 1=Reduced | Matrix ² Loca | | | M | Loamy Sand | some charcoal and ash | |
| Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surf Alaska Gleyed (Alaska Redox (| ators: :el (A1) n (A2) de (A4) face (A12) | · | | | tion: PL=Pore | | | | | |
| Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surf Alaska Gleyed (Alaska Redox (| ators: :el (A1) n (A2) de (A4) face (A12) | · | | | tion: PL=Pore | | | | | |
| Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surf Alaska Gleyed (Alaska Redox (| ators: :el (A1) n (A2) de (A4) face (A12) | · | | | tion: PL=Pore | | | | | |
| Histosol or Hist Histic Epipedon Hydrogen Sulfic Thick Dark Surl Alaska Gleyed (Alaska Redox (, | tel (A1) n (A2) de (A4) face (A12) | | I | ndicators for | | e Lining. RC | C=Root Cha | annel. M=Matrix | | |
| Histic Epipedon Hydrogen Sulfic Thick Dark Surl Alaska Gleyed (Alaska Redox (| n (A2) de (A4) face (A12) | | | | Problemation | : Hydric So | oils: | | | |
| Hydrogen Sulfio Thick Dark Surl Alaska Gleyed (Alaska Redox (| de (A4) face (A12) | | | Alaska Colo | r Change (TA4 | 4 1) | | Alaska Gleyed Without Hue 5Y or Redder | | |
| Thick Dark Surf Alaska Gleyed (Alaska Redox (| face (A12) | | L | Alaska Alpir | ne swales (TAS | 5) | | Underlying Layer | | |
| Alaska Gleyed (Alaska Redox (| , , | | | Alaska Redo | x With 2.5Y H | lue | | Other (Explain in Remark | s) | |
| Alaska Redox (A | (A13) | | | | | | | | | |
| ¬ ` | | | | One indicator and an approp | | | | nary indicator of wetland h esent | ydrology, | |
| Alaska Gleved I | • | | | | · | • | • | | | |
| _ / masika dicyca i | Pores (A15 |) | | ⁴ Give details o | or color change | e iii Keillark | is . | | | |
| estrictive Layer (if | present): | | | | | | | | | |
| Type: | | | | | | | | Hydric Soil Present? | ? Yes ○ No • | |
| Depth (inches): | | | | | | | | | | |
| | | | | | | | | | | |
| YDROLOGY | | | | | | | | | | |
| etland Hydrolog | | | | | | | | | cators (two or more are required) | |
| rimary Indicators | | s sufficient) | | | | | | | ned Leaves (B9) | |
| Surface Water (A1) | | | | | n Visible on A | _ | | | atterns (B10) | |
| ☐ High Water Ta | ` ' | | | | /egetated Cor | icave Surfac | ce (B8) | | hizospheres along Living Roots (C3 | |
| Saturation (A3)Water Marks (I | • | | | _ ' | osits (B15) | (04) | | Salt Deposi | f Reduced Iron (C4) | |
| | | | | | Sulfide Odor | | | | | |
| Sediment Depo | ` , | | | | on Water Table | | | | Stressed Plants (D1) | |
| Drift Deposits | . , | | | ☐ Other (Ex | plain in Rema | rks) | | | c Position (D2) | |
| ☐ Algal Mat or Cr | . , | | | | | | | | uitard (D3) | |
| ☑ Iron Deposits (☑ Surface Soil Cr | . , | | | | | | | FAC-neutra | raphic Relief (D4) | |
| | ` ' | | | | | | | ☐ FAC-neutra | i lest (D5) | |
| eld Observation | | Yes 🔾 | No 💿 | Depth (in | choc). | | | | | |
| Surface Water Pres | | | | Depth (in | cnes): | | | | | |
| Vater Table Prese | | Yes 🔾 | | Depth (in | ches): | | Wetla | nd Hydrology Presen | t? Yes ○ No • | |
| Saturation Present includes capillary | | Yes 🔾 | No 💿 | Depth (in | ches): | | | | | |
| escribe Recorded [| Data (strea | am gauge, mo | onitor well, a | erial photos, p | orevious inspe | ction) if ava | ailable: | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| emarks: o wetland hydrolog | | rs | | | | | | | | |

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