WETLAND DETERMINATION DATA FORM - Alaska Region

| | ska-Susitna Borough Sampling Date: 05-Aug-13 | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| Applicant/Owner: Alaska Energy Authority | Sampling Point: SW13_T100_10 | | | | | | | | | |
| | ace, hummocks etc.): Hillside | | | | | | | | | |
| Local relief (concave, convex, none): rolling Slope: 14.0 % / 8 | | | | | | | | | | |
| Subregion: Copper River Basin Lat.: 62.6101876236 | Long.: -147.415557364 Datum: WGS84 | | | | | | | | | |
| | | | | | | | | | | |
| Soil Map Unit Name: NWI classification: Upland 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 The Vegetation , Soil , or Hydrology naturally problematic? (If ne SUMMARY OF FINDINGS - Attach site map showing sampling point location | Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.) | | | | | | | | | |
| S Is the Sar | mpled Area | | | | | | | | | |
| Hydric Soil Present? Yes O INO 9 within a V | within a Wetland? Yes ○ No ● | | | | | | | | | |
| Wetland Hydrology Present? Yes No Within a Wetland? | | | | | | | | | | |
| Remarks: on a slope below large pond, small pond below. small seasonal drainage to the N VEGETATION -Use scientific names of plants. List all species in the plot. | Dominance Test worksheet: | | | | | | | | | |
| Tree Stratum Absolute Dominant Indicator % Cover Species? Status | Number of Dominant Species | | | | | | | | | |
| 1. Picea glauca 5 FACU | That are OBL, FACW, or FAC:4(A) | | | | | | | | | |
| 2 | Total Number of Dominant Species Across All Strata: 5 (B) | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B) | | | | | | | | | |
| 5. 0 | Prevalence Index worksheet: | | | | | | | | | |
| Total Cover: 5 | Total % Cover of: Multiply by: | | | | | | | | | |
| Sapling/Shrub Stratum 50% of Total Cover: 2.5 20% of Total Cover: 1 | OBL Species 6 x1 = 6 | | | | | | | | | |
| 1. Betula nana 25 ✓ FAC | FACW Species 16 x 2 = 32 | | | | | | | | | |
| 20 74 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | FAC Species 95 x 3 = 285 | | | | | | | | | |
| 2. Vaccinium uliginosum 20 FAC 3. Dasiphora fruticosa 15 FAC | FACU Species 6 x 4 = 24 | | | | | | | | | |
| 4. Salix pulchra 5 FACW | UPL Species 0 x 5 = 0 | | | | | | | | | |
| 5. Chamaedaphne calvculata 3 FACW | | | | | | | | | | |
| 6. Ledum groenlandicum 5 FAC 7. Picea mariana 5 FACW | Column Totals: <u>123</u> (A) <u>347</u> (B) | | | | | | | | | |
| 7. Picea mariana 5 FACW | Prevalence Index = B/A = | | | | | | | | | |
| 8 | Hydrophytic Vegetation Indicators: | | | | | | | | | |
| 90 | ✓ Dominance Test is > 50% | | | | | | | | | |
| 10. | ✓ Prevalence Index is ≤3.0 | | | | | | | | | |
| Total Cover: 78 Herb Stratum 50% of Total Cover: 39 20% of Total Cover: 15.6 | Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | | | | | | | | | |
| 1. Equisetum arvense 5 FAC | Problematic Hydrophytic Vegetation ¹ (Explain) | | | | | | | | | |
| 2. Equisetum sylvaticum 15 FAC | ¹ Indicators of hydric soil and wetland hydrology must | | | | | | | | | |
| 3. Calamagrostis canadensis 8 ✓ FAC | be present, unless disturbed or problematic. | | | | | | | | | |
| 4. Rumex arcticus 2 FAC | Plot size (radius, or length x width) 10m | | | | | | | | | |
| 5. Eriophorum angustifolium 3 OBL | % Cover of Wetland Bryophytes | | | | | | | | | |
| 6. Chamerion angustifolium 1 FACU | (Where applicable) | | | | | | | | | |
| 7. Carex saxatilis 3 FACW | % Bare Ground _2 | | | | | | | | | |
| 8. Comarum palustre 2 OBL | Total Cover of Bryophytes | | | | | | | | | |
| 9. Carex Ioliacea 1 OBL | | | | | | | | | | |
| 10 | Hydrophytic | | | | | | | | | |
| Total Cover: 40 50% of Total Cover: 20 20% of Total Cover: 8 | Vegetation Present? Yes No | | | | | | | | | |
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SOIL Sampling Point: SW13_T100_10

| | ion: (Describe to | o the depth no | eeded to docu | ocument the indicator or confirm the absence of indicators) Redox Features | | | | | Remarks | | | | |
|---|---|----------------|----------------|---|-------------|----------------|--------------------|---|--------------------------------------|--|--|--|--|
| Depth (inches) Color (moist) | | noist) | % | Color (moist) | | Type 1 Loc_2 | | Texture | | | | | |
| 0-7 | | | 100 | | | | | Fibric Organics | Fibric Organics | | | | |
| 7-11 | 7.5YR | 3/2 | 100 | | | | | Silt Loam | rounded gravel and cobbles | | | | |
| 11-18 | 7.5YR | 2.5/2 | 100 | - | | | | Loamy Sand | compacted rounded gravel and cobbles | | | | |
| | 7.51.1 | | | | | | | , | compacted rounded graver and coopies | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| ¹Type: C=Cor | ¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix | | | | | | | | | | | | |
| Hydric Soil I | ndicators: | | | Indicators for P | roblemati | c Hydric S | oils: ³ | | | | | | |
| Histosol or | r Histel (A1) | | | Alaska Color (| Change (TA | 4 4) | | ☐ Alaska Gleyed Without Hue 5Y or Redder | | | | | |
| Histic Epip | edon (A2) | | | Alaska Alpine | swales (TA | 5) | | Underlying Layer | | | | | |
| Hydrogen | Sulfide (A4) | | | Alaska Redox | With 2.5Y H | Hue | | Other (Explain in Remar | (S) | | | | |
| ☐ Thick Dark | c Surface (A1 | 2) | | • • • • | | | | | | | | | |
| Alaska Gle | eyed (A13) | | | One indicator of and an appropria | | | | mary indicator of wetland hesent | nydrology, | | | | |
| Alaska Red | dox (A14) | | | | • | - | - | 000110 | | | | | |
| Alaska Gle | eyed Pores (A | 15) | | ⁴ Give details of | color chang | e in Remari | KS | | | | | | |
| Restrictive Laye | er (if present) |): | | | | | | | | | | | |
| Type: | | | | | | | | Hydric Soil Present | ? Yes ○ No • | | | | |
| Depth (inch | nes): | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | | | |
| Wetland Hyd | rology Indic | ators: | | | | | | Secondary Indi | cators (two or more are required) | | | | |
| Primary Indica | itors (any one | e is sufficien | t) | | | | | Water Stained Leaves (B9) | | | | | |
| Surface W | Vater (A1) | | | ☐ Inundation Visible on Aerial Imagery (B7) | | | ery (B7) | Drainage Patterns (B10) | | | | | |
| High Water Table (A2) | | | | Sparsely Vegetated Concave Surface (B8) | | | | Oxidized Rhizospheres along Living Roots (C3) | | | | | |
| Saturation (A3) Marl Deposits (B15) | | | | | | | | of Reduced Iron (C4) | | | | | |
| Water Ma | | _ | | Hydrogen S | | | | Salt Depos | | | | | |
| _ | ☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2) ☐ Stunted or Stressed Plants (D1) | | | | | | | | ` ' | | | | |
| Drift Depo | . , | | | Other (Expl | ain in Rema | rks) | | | ic Position (D2) | | | | |
| | Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Microtopographic Relief (D4) | | | | | | | | | | | | |
| · - | oil Cracks (B6 | :) | | | | | | | graphic Relief (D4) al Test (D5) | | | | |
| Field Observa | · · · · · · · · · · · · · · · · · · · | ') | | | | | | TAC fleution | 11 1651 (153) | | | | |
| Surface Water | | Yes C | No • | Depth (inch | es): | | | | | | | | |
| Water Table P | | Yes C | | Depth (inch | • | | Wetla | nd Hydrology Presen | it? Yes O No 💿 | | | | |
| Saturation Pre | | | | рерит (тист | ies): | | Trection. | rectand flydrology Fresent: Tes C NO C | | | | | |
| (includes capi | | Yes C | No • | Depth (inch | es): | | | | | | | | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | | | | | | | | | | | | | |
| Domontos | | | | | | | | | | | | | |
| Remarks: | drology indica | tore observ | ad | | | | | | | | | | |
| no wetland hyd | лоюду іпаіса | iors observe | c u | | | | | | | | | | |
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