WETLAND DETERMINATION DATA FORM - Alaska Region

| Project | /Site: Susitna-Watana Hydroelectric Project | | Borough/City: | Matanusk | xa-Susitna Borough Sampling Date:05-Aug-13 | | |
|----------|---|------------------------------|----------------------------|---------------------|--|--|--|
| Applica | ant/Owner: Alaska Energy Authority | Sampling Point: SW13_T100_08 | | | | | |
| Investi | gator(s): BAB | ce, hummocks etc.): Lowland | | | | | |
| Local r | elief (concave, convex, none): hummocky | | Slope: | % / 1.7 | 7 ° Elevation: 786 | | |
| Subreo | jion : Copper River Basin | Lat.: | 62.61587868 | 45 | Long.: -147.42373039 Datum: NAD83 | | |
| _ | p Unit Name: | Lut | 02.01307000 | | NWI classification: PSS1/4B | | |
| | · | ·· • · · · | 0 Voo | • No O | | | |
| | natic/hydrologic conditions on the site typical for this t regetation \Box , Soil \Box , or Hydrology \Box | • | ar? res itly disturbed? | | (If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ | | |
| | | • | problematic? | | ionnal oli cametanece procent. | | |
| | | • | • | | eded, explain any answers in Remarks.) | | |
| SUM | MARY OF FINDINGS - Attach site map sho | wing sa | mpling poin | t locations | s, transects, important features, etc. | | |
| | Hydrophytic Vegetation Present? Yes No | | le. | the Com | unlad Araa | | |
| | Hydric Soil Present? Yes ● No | | | Is the Sampled Area | | | |
| | Wetland Hydrology Present? Yes No | itnin a w | thin a Wetland? Yes ● No ○ | | | | |
| Rema | arks: near the top of a long gentle slope | | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGE | TATION - Use scientific names of plants. L | ist all sp | ecies in the | plot. | | | |
| | • | Absolut | | Indicator | Dominance Test worksheet: | | |
| Tree | e Stratum | % Cove | | Status | Number of Dominant Species | | |
| 1. | | 0 | | | That are OBL, FACW, or FAC: 6 (A) | | |
| 2. | | 0 | | | Total Number of Dominant Species Across All Strata: 6 (B) | | |
| 3. | | 0 | | | Percent of dominant Species | | |
| 4. | | 0 | | | That Are OBL, FACW, or FAC:100.0% (A/B) | | |
| 5. | | 0 | | | Prevalence Index worksheet: | | |
| | Total Cover | r: <u> </u> | _ | | Total % Cover of: Multiply by: | | |
| Sap | ling/Shrub Stratum 50% of Total Cover: | 0 20 | % of Total Cove | ·:0 | OBL Species0 x 1 =0 | | |
| 1. | Picea mariana | 20 | ✓ | FACW | FACW Species <u>57.1</u> x 2 = <u>114.2</u> | | |
| 2. | Betula nana | 15 | V | FAC | FAC Species <u>35.1</u> x 3 = <u>105.3</u> | | |
| 3. | Rhododendron groenlandicum | 0.1 | L \square | FAC | FACU Species 0 x 4 = 0 | | |
| 4. | Rhododendron tomentosum | 20 | ✓ | FACW | UPL Species0 x 5 =0 | | |
| 5. | Vaccinium vitis-idaea | 2 | | FAC | Column Totals: 92.2 (A) 219.5 (B) | | |
| 6. | Vaccinium uliginosum | 8 | | FAC | | | |
| 7. | Empetrum nigrum | 2 | | FAC | Prevalence Index = B/A = 2.381 | | |
| 8. | | 0 | _ 📙 | | Hydrophytic Vegetation Indicators: | | |
| 9. | | 0 | _ | | Dominance Test is > 50% | | |
| 10. | | 0 | _ | | ✓ Prevalence Index is ≤3.0 | | |
| | Total Cover b Stratum 50% of Total Cover: | | | r: 12.12 | Morphological Adaptations (Provide supporting data in | | |
| | | | | | Remarks or on a separate sheet) | | |
| | Eriophorum vaginatum | | | FACW | Problematic Hydrophytic Vegetation ¹ (Explain) | | |
| 2. | Carex bigelowii | | | FAC FAC | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | |
| 3. | Equisetum sylvaticum Petasites frigidus | | - | FACW | To produce and a second of production | | |
| 4. 5. | Dadiaularia labradarias | | - = | FACW | Plot size (radius, or length x width) | | |
| 6. | Rubus chamaemorus | | | FACW | % Cover of Wetland Bryophytes (Where applicable) | | |
| | Tradas shamachisras | | | | | | |
| | | | | | % Bare Ground2 | | |
| | | | | | Total cover of pryophrytes55 | | |
| | | | _ | | Hydrophytic | | |
| | Total Cover | r: | _ | | Vegetation | | |
| | 50% of Total Cover: | | _ | :5.02 | Present? Yes No | | |
| Rem | arks: small patches of sedge moss bogs scattered t | hroughou | t | | | | |
| Rem | arks: small patches of sedge moss bogs scattered t | hroughou | t | | | | |

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SOIL Sampling Point: SW13_T100_08

| Profile Descript | | e depth nee | ded to docum | ent the indicator or co | nfirm the ab | | ators) | | | | | |
|--|--------------------|-------------|----------------|--------------------------------------|---------------------------------------|-------------------|---------|-----------------------------|-------------------------------------|--|--|--|
| Depth (inches) | Color (mois | | % | Color (moist) | % | Type ¹ | _Loc_2 | Texture | Remarks | | | |
| 0-4 | Color (IIIois | ot) | 100 | Color (Illoist) | | Туре | LUC | Fibric Organics | T.C.II.I.I.O | | | |
| 4-13 | | | 100 | | | | | Hemic Organics | | | | |
| - 113 | | | | | - | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix | | | | | | | | | | | | |
| Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³ | | | | | | | | | | | | |
| Histosol o | r Histel (A1) | | | Alaska Color C | | | | | | | | |
| ✓ Histic Epip | pedon (A2) | | | Alaska Alpine s | swales (TA | 5) | | Underlying Layer | | | | |
| Hydrogen | Sulfide (A4) | | | Alaska Redox \ | With 2.5Y F | lue | | Other (Explain in Remark | s) | | | |
| ☐ Thick Darl | k Surface (A12) | | | | | | | | | | | |
| Alaska Gle | eyed (A13) | | | One indicator of and an appropria | | | | nary indicator of wetland h | ydrology, | | | |
| Alaska Re | dox (A14) | | | | | • | | Serie | | | | |
| Alaska Gle | eyed Pores (A15) | l | | ⁴ Give details of c | olor change | e in Remark | S | | | | | |
| Restrictive Lay | | | | | | | | | | | | |
| | rich frozen soils | | | | | | | Hydric Soil Present? | ? Yes ⊙ No O | | | |
| Depth (inci | Depth (inches): 13 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | | | |
| Wetland Hyd | rology Indicat | ors: | | | | | | Secondary Indic | ators (two or more are required) | | | |
| Primary Indica | tors (any one is | sufficient) | | | | | | Water Stair | ned Leaves (B9) | | | |
| Surface V | Vater (A1) | | | ☐ Inundation V | isible on A | erial Imager | ry (B7) | _ | atterns (B10) | | | |
| High Wat | er Table (A2) | | | Sparsely Veg | etated Cor | cave Surfac | ce (B8) | Oxidized R | nizospheres along Living Roots (C3) | | | |
| ✓ Saturation | . , | | | Marl Deposit | s (B15) | | | _ | Reduced Iron (C4) | | | |
| Water Ma | | | | ∐ Hydrogen Sւ | | | | Salt Deposi | | | | |
| | Deposits (B2) | | | Dry-Season \ | | | | | Stressed Plants (D1) | | | |
| ☐ Drift Dep | | | | U Other (Expla | in in Rema | rks) | | | c Position (D2) | | | |
| | or Crust (B4) | | | | | | | ✓ Shallow Aq | ` ' | | | |
| Iron Depo | | | | | | | | | raphic Relief (D4) | | | |
| | oil Cracks (B6) | | | | | | | ✓ FAC-neutra | Test (DS) | | | |
| Field Observation Surface Wate | | Yes 〇 | No (| Donth (inch | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| | | | | Depth (inche | 25): | | | | | | | |
| Water Table F | | Yes O | | Depth (inche | es): | | Wetlar | nd Hydrology Present | t? Yes • No O | | | |
| Saturation Pro (includes capi | | Yes • | No O | Depth (inche | es): 6 | | | | | | | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | |
| | ntains areas that | are more | wet than th | is, which probably | do have a v | water table | | | | | | |
| Community CO | nama arcas ulai | are more | ···cc uidii üi | io, willer probably | ao nave a l | TALLI LUDIC. | | | | | | |
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