WETLAND DETERMINATION DATA FORM - Alaska Region

| | ct/Site: Susitna-Watana Hydroelectric Project | | Borough/City: | Matanusk | ca-Susitna Borough Sampling Date: 02-Jul-13 |
|---|---|---|-------------------|----------------------------|--|
| Applic | cant/Owner: Alaska Energy Authority | | | | Sampling Point: SW13_T138_05 |
| | tigator(s): JER | | Landform (hills | ide, terrac | e, hummocks etc.): Floodplain |
| Local | relief (concave, convex, none): flat | | Slope: | | 9 ° Elevation: 854 |
| Subre | egion : Southcentral Alaska | Lat.: | 62.887603401 | - — 3 | Long.: -149.106500864 Datum: NAD83 |
| | lap Unit Name: | | 02.007000101 | | NWI classification: PEM1E |
| | imatic/hydrologic conditions on the site typical for this tir | ne of vea | ur? Yes | • No O | (If no, explain in Remarks.) |
| | | • | tly disturbed? | | Iormal Circumstances" present? Yes No |
| | | - | problematic? | | eded, explain any answers in Remarks.) |
| | , , | | | · | |
| SUM | IMARY OF FINDINGS - Attach site map show | | mpling point | ocations | s, transects, important features, etc. |
| | Hydrophytic Vegetation Present? Yes No | | le f | ha Sam | pled Area |
| | Hydric Soil Present? Yes No | | | | etland? Yes ● No ○ |
| | Wetland Hydrology Present? Yes ● No ○ | | | | onana i |
| Rem | narks: wet meadow adjacent stream, probably flooded a | t least an | nually. addition | al photos c | of creek, water running through meadow from slope above. |
| | | | | | |
| VEG | ETATION - Use scientific names of plants. Lis | st all ca | acias in tha | No+ | |
| VLG | LIATION - Ose scientific flames of plants. Lis | | | | Dominance Test worksheet: |
| Tre | ee Stratum | Absolute % Cover | | Indicator 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: | 0 | _ | | Total % Cover of: Multiply by: |
| Sa | pling/Shrub Stratum 50% of Total Cover: | 0 209 | % of Total Cover: | 0 | OBL Species 30 x 1 = 30 |
| 1 | Andromeda polifolia | 10 | ✓ | FACW | FACW Species 18 x 2 = 36 |
| | Saliv fuecescens | 8 | | | FAC Species 3 x 3 = 9 |
| | Jalix luscescens | | ▼ | FAC.VV | 1710 Openico 3 x 0 9 |
| | Salix arctica | | - 🔲 | FACU | FACU Species 5 x 4 = 20 |
| 4. | Salix arctica Vaccinium uliginosum | 5 | | | |
| 4. 5. | Vaccinium uliginosum | 3 | | FACU | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 |
| | Vaccinium uliginosum | 5 3 0 | | FACU | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 Column Totals: 56 (A) 95 (B) |
| 5. | Vaccinium uliginosum | 5 3 0 | | FACU | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 |
| 5. 6. | Vaccinium uliginosum | 5 3 0 | | FACU | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 Column Totals: 56 (A) 95 (B) |
| 5. 6. 7. | Vaccinium uliginosum | 5 3 0 | | FACU | FACU Species 5 $\times 4 = 20$ UPL Species 0 $\times 5 = 0$ Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: Dominance Test is > 50% |
| 5. 6. 7. 8. | Vaccinium uliginosum | 5 3 0 0 0 0 0 | | FACU | FACU Species 5 $x 4 = 20$ UPL Species 0 $x 5 = 0$ Column Totals: 56 (A) 95 (B) Prevalence Index = $B/A = 1.696$ Hydrophytic Vegetation Indicators: |
| 5. 6. 7. 8. 9. | Vaccinium uliginosum Total Cover: | 5 3 0 0 0 0 0 0 | | FACU FAC | FACU Species 5 $x 4 = 20$ UPL Species 0 $x 5 = 0$ Column Totals: 56 (A) 95 (B) Prevalence Index = $B/A = 1.696$ Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in |
| 5. 6. 7. 8. 9. 10. | Vaccinium uliginosum Total Cover: 50% of Total Cover: | 5 3 0 0 0 0 0 0 0 0 26 13 | Grant Cover: | FACU FAC | FACU Species 5 $x 4 = 20$ UPL Species 0 $x 5 = 0$ Column Totals: 56 (A) 95 (B) Prevalence Index = $B/A = 1.696$ Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) |
| 5. 6. 7. 8. 9. 10. | Vaccinium uliginosum Total Cover: Solvent Stratum Carex aquatilis Title should be solved to the | 5 3 0 0 0 0 0 0 0 26 13 20 | of Total Cover: | FACU FAC 5.2 OBL | FACU Species 5 $\times 4 = 20$ UPL Species 0 $\times 5 = 0$ Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) |
| 5. 6. 7. 8. 9. 10. He 1. 2. | Vaccinium uliginosum Total Cover: 50% of Total Cover: Carex aquatilis Trichophorum caespitosum | 5 3 0 0 0 0 0 0 0 26 13 20 | of Total Cover: | FACU FAC 5.2 OBL OBL | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 |
| 5. 6. 7. 8. 9. 10. He 1. 2. 3. | Vaccinium uliginosum Total Cover: 50% of Total Cover: Carex aquatilis Trichophorum caespitosum Eriophorum angustifolium | 5 3 0 0 0 0 0 0 26 13 20 12 5 | of Total Cover: | FACU FAC 5.2 OBL OBL OBL | FACU Species 5 $x 4 = 20$ UPL Species 0 $x 5 = 0$ Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) |
| 5. 6. 7. 8. 9. 10. He 1. 2. 3. 4. | Total Cover: Stratum Carex aquatilis Trichophorum caespitosum Eriophorum angustifolium Carex limosa | 5 3 0 0 0 0 0 0 26 13 20 12 5 5 | of Total Cover: | FACU FAC 5.2 OBL OBL OBL | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 |
| 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. | Vaccinium uliginosum Total Cover: 50% of Total Cover: Carex aquatilis Trichophorum caespitosum Eriophorum angustifolium Carex limosa Carex chordorrhiza | 5 3 0 0 0 0 0 0 0 26 13 20 5 5 5 5 | of Total Cover: | FACU FAC 5.2 OBL OBL OBL | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 |
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| 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. | Total Cover: Stratum Carex aquatilis Trichophorum caespitosum Eriophorum angustifolium Carex limosa Carex chordorrhiza | 5 3 0 0 0 0 0 26 13 20 5 5 5 5 3 0 0 | of Total Cover: | FACU FAC 5.2 OBL OBL OBL | FACU Species 5 x 4 = 20 UPL Species 0 x 5 = 0 Column Totals: 56 (A) 95 (B) Prevalence Index = B/A = 1.696 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 |
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SOIL Sampling Point: SW13_T138_05

| | to the depth nee Matrix | eded to docume | nt the indicator or confi Redo | rm the abso | | ators) | | |
|--|------------------------------|----------------------|---|--|-------------------------------------|---------|--|--|
| Depth (inches) Color (r | | % | Color (moist) | % | Type ¹ | _Loc_2 | Texture | Remarks |
| 0-16 | iloistj | 100 | color (moist) | _/0_ | Турс | LUC | Fibric Organics | thin silt layer at 8 |
| | | | | | | | | |
| | | | | | | | <u>-</u> | |
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| | | | | | | | | |
| 1 | | | | | | | | - |
| ¹ Type: C=Concentration. | D=Depletion. | | | | | | nnel. M=Matrix | |
| Hydric Soil Indicators: | |] | Indicators for Pro | | 4 | oils: | | |
| ✓ Histosol or Histel (A1) | | | Alaska Color Cha | | | | Alaska Gleyed Without H | ue 5Y or Redder |
| Histic Epipedon (A2) | | | Alaska Alpine sw | | | | Underlying Layer | |
| Hydrogen Sulfide (A4) | | L | Alaska Redox Wi | th 2.5Y H | ıe | | Other (Explain in Remarl | (S) |
| Thick Dark Surface (A | .2) | | 3 0 : | | | | | duala a |
| Alaska Gleyed (A13) | | | and an appropriate | | | | nary indicator of wetland hesent | nydrology, |
| Alaska Redox (A14) | | | | • | - | - | | |
| Alaska Gleyed Pores (A | 15) | | ⁴ Give details of colo | or change | ın Remark | S | | |
| Restrictive Layer (if present |): | | | | | | | |
| Type: frost | | | | | | | Hydric Soil Present | ? Yes 💿 No 🔾 |
| Depth (inches): 16 | | | | | | | | |
| | | | | | | | | |
| HYDROLOGY | | | | | | | | |
| Wetland Hydrology Indi | cators: | | | | | | | |
| D: 7 !! | | | | | | | Secondary Indi | cators (two or more are required) |
| Primary Indicators (any on | <u>e is sufficient)</u> | | | | | | | cators (two or more are required) ned Leaves (B9) |
| ✓ Surface Water (A1) | e is sufficient) | | Inundation Visi | ible on Ae | rial Imager | ry (B7) | Water Stai | |
| | | <u> </u> | ☐ Inundation Visi☐ Sparsely Veget | | | | Water Stai | ned Leaves (B9) |
| Surface Water (A1) | | | | ated Cond | | | ☐ Water Stai☐ Drainage R☐ Oxidized R | ned Leaves (B9) Patterns (B10) |
| Surface Water (A1) High Water Table (A2) | | | Sparsely Veget | ated Cond (B15) | cave Surfac | | ☐ Water Stai☐ Drainage R☐ Oxidized R | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) |) | | ☐ Sparsely Veget☐ Marl Deposits (| ated Cond (B15) de Odor (| cave Surfac | | Water Stai Drainage F Oxidized R Presence C Salt Depos | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) |) | | Sparsely Veget Marl Deposits (Hydrogen Sulfi | ated Cond (B15) de Odor (ater Table | cave Surfac | | Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) |
| ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) | 2) | | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa | ated Cond (B15) de Odor (ater Table | cave Surfac | | Water Stai Drainage F Oxidized R Presence C Salt Depos Stunted or | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) | 2) | | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa | ated Cond (B15) de Odor (ater Table | cave Surfac | | Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph ☑ Shallow Ac | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) | 2) | | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa | ated Cond (B15) de Odor (ater Table | cave Surfac | | Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph ☑ Shallow Ac | Patterns (B10) Patterns (B10) Prizospheres along Living Roots (C3) Prizospheres |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | 2)) | | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa | ated Cond (B15) de Odor (ater Table | cave Surfac | | Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ✔ Geomorph ✔ Shallow Ac □ Microtopos | Patterns (B10) Patterns (B10) Prizospheres along Living Roots (C3) Prizospheres |
| ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B | 2) | | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa | ated Cond (B15) de Odor (ater Table in Remarl | cave Surfac | | Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ✔ Geomorph ✔ Shallow Ac □ Microtopos | Patterns (B10) Patterns (B10) Prizospheres along Living Roots (C3) Prizospheres |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B | 2)) | No O | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa Other (Explain | ated Conc (B15) de Odor (ater Table in Remarl | cave Surfac | e (B8) | Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ✔ Geomorph ✔ Shallow Ac □ Microtopos | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) higuitard (D3) higraphic Relief (D4) hal Test (D5) |
| ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) | 2)) (6) Yes Yes Yes | No ○ No ○ | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa Other (Explain Depth (inches) | ated Conc (B15) de Odor (ater Table in Remark | cave Surfac | e (B8) | Water Stail □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) higuitard (D3) higraphic Relief (D4) hal Test (D5) |
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| ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) | 2)) Yes Yes Yes Yes Yes | No O No O No O | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa Other (Explain Depth (inches) Depth (inches) | ated Cond (B15) de Odor (ater Table in Remark : 1 : 0 | cave Surface C1) (C2) (cs) | Wetlar | Water Stail □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) higuitard (D3) higraphic Relief (D4) hal Test (D5) |
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| ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st | 2)) Yes Yes Yes Yes Yes | No O No O No O | Sparsely Veget Marl Deposits (Hydrogen Sulfi Dry-Season Wa Other (Explain Depth (inches) Depth (inches) | ated Cond (B15) de Odor (ater Table in Remark : 1 : 0 | cave Surface C1) (C2) (cs) | Wetlar | Water Stail □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph ☑ Shallow Ac □ Microtopog ☑ FAC-neutra | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) higuitard (D3) higraphic Relief (D4) hal Test (D5) |

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