## WETLAND DETERMINATION DATA FORM - Alaska Region

| ct/Site: Susitna-Watana Hydroelectric Project  |  | Borough/City:   | Matanusk                       | ca-Susitna Borough Sampling Date: 02-Aug-13   |
|--|--|---|--------------------------------|---|
| cant/Owner: Alaska Energy Authority  |  |   |                                | Sampling Point: SW13_T177_10  |
| tigator(s): BAB  |  | Landform (hill  | side, terrac                   |   |
| relief (concave, convex, none): convex   |  | Slope:  | % / 7.9                        | 9 ° Elevation: 102  |
| edion : Interior Alaska Mountains  | Lat.:  | 63 077918235  | <br>i3                         | Long.: -148.101662654 Datum: NAD83  |
|  | Lut  | 03.077310230  |                                | NWI classification: Upland  |
| ·  |  |   | ● No ○                         |   |
|  | -  |   |                                | (If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○   |
|  | -  | -   |                                | iornal oli daniotarioco present:  |
|  |  |   |                                | eded, explain any answers in Remarks.)  |
| MARY OF FINDINGS - Attach site map sho   | wing sa  | mpling point  | locations                      | s, transects, important features, etc.  |
| Hydrophytic Vegetation Present? Yes O No   | •  | _   |                                |   |
| Hydric Soil Present? Yes No  |  |   |                                |   |
|  |  | wi  | thin a W                       | /etland? Yes ○ No ●   |
| narks:   |  |   |                                |   |
|  |  |   |                                |   |
|  |  |   |                                |   |
| ETATION - Use scientific names of plants. L  | ist all sp   | ecies in the  | plot.                          |   |
| - God solentine names of plants, 2   |  |   |                                | Dominance Test worksheet:   |
| ee Stratum   |  |   | Status                         | Number of Dominant Species  |
|  | 0  |   |                                | That are OBL, FACW, or FAC: 2 (A)   |
|  | 0  |   |                                | Total Number of Dominant Species Across All Strata: 4 (B)   |
|  | _  |   |                                | Percent of dominant Species   |
|  | 0  |   |                                | That Are OBL, FACW, or FAC: 50.0% (A/B)   |
|  | 0  |   |                                | Prevalence Index worksheet:   |
| Total Cover  | r: <u> </u>  | _   |                                | Total % Cover of: Multiply by:  |
| pling/Shrub Stratum 50% of Total Cover:  | 0 209  | % of Total Cover:   | 0                              | OBL Species0 x 1 =0   |
| Betula nana  | 1  |   | FAC                            | FACW Species 0 x 2 = 0  |
| Loiseleuria procumbens   | 5  | ✓   | FACU                           | FAC Species <u>22.1</u> x 3 = <u>66.30</u>  |
| Empetrum nigrum  |  | _   |                                |   |
|  | 10   | <b>_</b>  | FAC                            | FACU Species <u>17</u> x 4 = <u>68</u>  |
| Vaccinium vitis-idaea  |  |   | FAC                            | FACU Species 17 x 4 = 68  UPL Species 3 x 5 = 15  |
| Vaccinium vitia idaea  | 1  |   |                                | UPL Species 3 x 5 = 15  |
| Vaccinium vitis-idaea  | 0  |   |                                | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)   |
| Vaccinium vitis-idaea  | 0 0  |   |                                | UPL Species 3 x 5 = 15  |
| Vaccinium vitis-idaea  | 1<br>0<br>0  |   |                                | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)   |
| Vaccinium vitis-idaea  | 1<br>0<br>0<br>0<br>0  |   |                                | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546   |
| Vaccinium vitis-idaea  | 1<br>0<br>0<br>0<br>0  |   |                                | UPL Species $3$ $x = 15$ Column Totals: $42.1$ (A) $149.3$ (B)  Prevalence Index = B/A = $3.546$ Hydrophytic Vegetation Indicators:   |
| Vaccinium vitis-idaea  Total Cover   | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   | FAC                            | UPL Species $3$ $x 5 = 15$ Column Totals: $42.1$ (A) $149.3$ (B)  Prevalence Index = B/A = $3.546$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations $^1$ (Provide supporting data in   |
| Vaccinium vitis-idaea  Total Coveres Stratum  50% of Total Cover:  | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | -   | FAC                            | UPL Species $3$ $x 5 = 15$ Column Totals: $42.1$ (A) $149.3$ (B)  Prevalence Index = B/A = $3.546$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\le 3.0$ Morphological Adaptations $^1$ (Provide supporting data in Remarks or on a separate sheet)  |
| Total Coverserb Stratum 50% of Total Covers  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>8.5 20  | of Total Cover  | FAC 3.4 FAC                    | UPL Species $3$ $x 5 = 15$ Column Totals: $42.1$ (A) $149.3$ (B)  Prevalence Index = B/A = $3.546$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations $^1$ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation $^1$ (Explain)  |
| Vaccinium vitis-idaea  Total Cover  brb Stratum  Festuca altaica  Antennaria friesiana   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>8.5 20  | of Total Cover  | : 3.4<br>FAC<br>UPL            | UPL Species 3 $x \cdot 5 = 15$ Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Explain)  1 Indicators of hydric soil and wetland hydrology must   |
| Vaccinium vitis-idaea  Total Cover  Erb Stratum  Festuca altaica  Antennaria friesiana  Artemisia norvegica  Continuo glauso                       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>8.5 20<br>3<br>2  | of Total Cover  | FAC  3.4  FAC  UPL  FACU       | UPL Species $3$ $x 5 = 15$ Column Totals: $42.1$ (A) $149.3$ (B)  Prevalence Index = B/A = $3.546$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations $^1$ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation $^1$ (Explain)  |
| Vaccinium vitis-idaea  Total Cover  Brb Stratum  Festuca altaica  Antennaria friesiana  Artemisia norvegica  Gentiana glauca                       | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>8.5 20<br>10<br>3<br>2<br>0.1  | % of Total Cover  | FAC  FAC  UPL  FACU  FACU  FAC | UPL Species 3 $x \cdot 5 = 15$ Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Explain)  1 Indicators of hydric soil and wetland hydrology must   |
| Total Cover  Festuca altaica Antennaria friesiana Artemisia norvegica Gentiana glauca Sibbaldia procumbens   | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>8.5 20<br>10<br>3<br>2<br>0.1  | of Total Cover  | FAC  3.4  FAC  UPL  FACU       | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  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)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes   |
| Total Cover  Festuca altaica Antennaria friesiana Artemisia norvegica Gentiana glauca Sibbaldia procumbens   | 1<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>8.5 20<br>10<br>3<br>2<br>0.1<br>10<br>0  | of Total Cover  | FAC  FAC  UPL  FACU  FACU  FAC | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  □ Dominance Test is > 50%  □ Prevalence Index is ≤3.0  □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  □ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)   |
| Total Cover  Solve Stratum  Festuca altaica  Antennaria friesiana  Artemisia norvegica  Gentiana glauca  Sibbaldia procumbens                      | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | of Total Cover  | FAC  FAC  UPL  FACU  FACU  FAC | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  □ Dominance Test is > 50%  □ Prevalence Index is ≤ 3.0  □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  □ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground 8                               |
| Total Cover  Total Cover  Solve of Total Cover:  Festuca altaica  Antennaria friesiana  Artemisia norvegica  Gentiana glauca  Sibbaldia procumbens | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | of Total Cover  | FAC  FAC  UPL  FACU  FACU  FAC | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  □ Dominance Test is > 50%  □ Prevalence Index is ≤3.0  □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  □ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)   |
| Total Cover  arb Stratum  Festuca altaica  Antennaria friesiana  Artemisia norvegica  Gentiana glauca  Sibbaldia procumbens                        | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | of Total Cover  | FAC  FAC  UPL  FACU  FACU  FAC | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  □ Dominance Test is > 50%  □ Prevalence Index is ≤ 3.0  □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  □ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground 8  Total Cover of Bryophytes 15 |
| Total Cover  Total Cover  Solve of Total Cover:  Festuca altaica  Antennaria friesiana  Artemisia norvegica  Gentiana glauca  Sibbaldia procumbens | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | of Total Cover  | FAC  FAC  UPL  FACU  FACU  FAC | UPL Species 3 x 5 = 15  Column Totals: 42.1 (A) 149.3 (B)  Prevalence Index = B/A = 3.546  Hydrophytic Vegetation Indicators:  □ Dominance Test is > 50%  □ Prevalence Index is ≤ 3.0  □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  □ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground 8                               |
| t :: i : i : i : i : i : i : i : i : i :   | igator(s): BAB relief (concave, convex, none): convex gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this to degetation | igator(s): BAB relief (concave, convex, none): convex gion: Interior Alaska Mountains | glator(s): BAB                 | Igator(s): BAB  |

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13\_T177\_10

| The process of the p | Color   Col   |  | Matrix  | eded to docume                        | nt the indicator or co   | onfirm the abse   |                             | ators)           |  |   |
|---|---|--|---|---------------------------------------|--|---|-----------------------------|------------------|--|---|
| Hemo Copanics   100   | Hemo Copanics   100   | ,, i ,   | noist)  | %                                     | Color (moist)  | %   | Type <sup>1</sup>           | Loc <sup>2</sup> | Texture  | Remarks   |
| 4-9 2.5 Y 3/2 100   | 4-9 2.5 Y 3/2 100   | 0-2  |   | 100                                   |  |   |                             |                  | Hemic Organics   |   |
| Secondary Indicators (Ary Deposits of Soli Indicators:    Historic Ori Hister (A1)  | 9-20 2.5Y 3/2 100 Sand pubrounded gravel and cobbiss    Type: C=Concentration, D=Depletion, RM=Reduced Matrix   Location: PL=Pere Lining, RC=Root Channel, M=Matrix   Mydric Soil Indicators:     Alaska Color Change (TA4)     Alaska Color Change (TA4)     Alaska Gloyed Without Hue 5Y or Redder     Hydrogen Suiface (A1)   Alaska Redox With Dark Surface (A12)   Alaska Gloyed (A13)   Alaska Redox With Jub (A15)   Alaska (A15)   Alaska (A15)   Alaska (A15)   Alaska (A15)   Alaska (A15)  | 2-4 10YR   | 3/3   | 100                                   |  |   |                             |                  | Sandy Loam   | semi rounded gravel and cobbles   |
| Secondary Indicators (Ary Deposits of Soli Indicators:    Historic Ori Hister (A1)  | 9-20 2.5Y 3/2 100 Sand pubrounded gravel and cobbiss    Type: C=Concentration, D=Depletion, RM=Reduced Matrix   Location: PL=Pere Lining, RC=Root Channel, M=Matrix   Mydric Soil Indicators:     Alaska Color Change (TA4)     Alaska Color Change (TA4)     Alaska Gloyed Without Hue 5Y or Redder     Hydrogen Suiface (A1)   Alaska Redox With Dark Surface (A12)   Alaska Gloyed (A13)   Alaska Redox With Jub (A15)   Alaska (A15)   Alaska (A15)   Alaska (A15)   Alaska (A15)   Alaska (A15)  | 4-9 2.5Y   | 3/2   | 100                                   |  |   |                             |                  | Loamy Sand   | semi rounded gravel and cobbles   |
| *Type: C=Concentration. D=Depletion. RM=Reduced Matrix ** Location: PL=Pore Lining, RC=Root Channel. M=Matrix ** Hydric Soil Indicators:  | Type: C=Concentration. D=Depletion. RM=Reduced Matrix      Type: C=Concentration. D=Depletion. RM=Reduced Matrix     New York   |  |   |                                       |  |   |                             |                  |  | -   |
| Hydric Soil Indicators:    Histosol or Histel (A1)  | Hydric Soil Indicators:    Histosol or Histel (A1)  |  |   |                                       |  |   |                             |                  | Suna   | subrounded graver and cobbles   |
| Hydric Soil Indicators:    Histosol or Histel (A1)  | Hydric Soil Indicators:    Histosol or Histel (A1)  |  |   |                                       |  |   |                             |                  |  |   |
| Hydric Soil Indicators:    Histosol or Histel (A1)  | Hydric Soil Indicators:    Histosol or Histel (A1)  |  |   |                                       |  |   |                             |                  |  |   |
| Hydric Soil Indicators:    Histosol or Histel (A1)  | Hydric Soil Indicators:    Histosol or Histel (A1)  |  |   |                                       |  |   |                             |                  |  |   |
| Histosol or Histel (A1)   | Histosol or Histel (A1)   |  | )=Depletion.  |                                       |  |   | _                           |                  | nnel. M=Matrix   |   |
| Histic Epipedon (A2)  | Histic Epipedon (A2)  |  |   | ]                                     | _  |   | 4                           | oils:            | 1  |   |
| mist cpipetion (n2)   | Hydrogen Suffice (A4)   |  |   | L                                     |  | • , ,   |                             |                  |  | ue 5Y or Redder   |
| Thick Dark Surface (A12)   Alaska Geyed (A13)   and an appropriate landscape position must be present   Alaska Redox (A14)   Alaska Geyed Pores (A15)   4 Give details of color change in Remarks      Restrictive Layer (if present):  | Thick Dark Surface (A12)   Alaska Gleyed (A13)   and an appropriate landscape position must be present   Alaska Redox (A14)   Alaska Redox (A14)   4 Give details of color change in Remarks      Restrictive Layer (if present): Type: Depth (inches):   Type: Depth (inch   | =  |   | L                                     |  | , ,   |                             |                  | , , ,  |   |
| Alaska Gleyed (A13)   | Alaska Gleyed (A13)   Alaska Gleyed (Present)   Alaska Gleyed Pores (A15)   Alaska    |  | 2)  | L                                     | Alaska Redox   | With 2.5Y HL  | ıe                          |                  | Other (Explain in Kemari   | 3)  |
| Alaska Gelyedr (A15)  | Alaska Gelyedr (A15)  | _ `  | 2)  |                                       | <sup>3</sup> One indicator o   | f hydrophytic   | vegetatio                   | n, one prin      | nary indicator of wetland h  | ydrology,   |
| Alaska Gleyed Pores (A15)  Restrictive Layer (if present): Type: Depth (inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators: Primar/ Indicators (and one is sufficient) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Saturation (A3) Marl Deposits (B15) Sediment Deposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B4) Drift Deposits (B5) Depth (inches): Surface Water Present? Ves No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:  Hydric Soil Present? Yes No No No Depth (inches):  Hydric Soil Present? Yes No Pool Section And Present? No Presence Alabert (C2) Depth (inches):  Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Water Stained Leaves (B9) Drift Quality Stained Leaves (B9) Drift Deposits (B10) Drift Deposits (B10) Drift Deposits (B2) Drift Deposits (B2) Drift Deposits (B2) Drift Deposits (B2) Depth (inches):  | Alaska Gleyed Pores (A15)  Restrictive Layer (if present): Type: Depth (inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (and one is sufficient)  |  |   |                                       |  |   |                             |                  |  |   |
| Restrictive Layer (if present): Type: Depth (inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators: Definanz Indicators (anv one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Mar Deposits (B1) Sediment Deposits (B2) Dry-Season Water Table (C2) Drift Deposits (B3) Mar Deposits (B3) Mar Deposits (B3) Mar Deposits (B3) Mar Deposits (B5) Microtopographic Relief (D4) Marge Water Rable (A2) Dry-Season Water Table (C2) Dry-Season Water Table | Restrictive Layer (if present? Type: Depth (inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators:   |  | 15)   |                                       | 4 Give details of o  | color change  | in Remark                   | s                |  |   |
| Type: Depth (Inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators:  | Type: Depth (inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators:  |  |   |                                       |  |   |                             |                  |  |   |
| Depth (inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators:  | Depth (Inches):  Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (Invo or more are required) Surface Water (A1)  | , , , ,  | ):  |                                       |  |   |                             |                  | Hydric Soil Bresent  | 2 Vec No 🔎  |
| Remarks: no hydric soil indicators observed  HYDROLOGY  Wetland Hydrology Indicators:   | HYDROLOGY  Wetland Hydrology Indicators:  | * *  |   |                                       |  |   |                             |                  | riyuric Son Present  | i les C NO C  |
| Wetland Hydrology Indicators: Secondary Indicators (two or more are required)   Primary Indicators (any one is sufficient) Water Stained Leaves (B9)   Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10)   High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3)   Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4)   Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)   Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1)   Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)   Algal Mat or Crust (B4) Shallow Aquitard (D3)   Iron Deposits (B5) Microtopographic Relief (D4)   Surface Soil Cracks (B6) PAC-neutral Test (D5)    Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Table Present?  Yes No Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:   | Wetland Hydrology Indicators:   |  |   |                                       |  |   |                             |                  |  |   |
| Primary Indicators (any one is sufficient)  Surface Water (A1)  Inundation Visible on Aerial Imagery (B7)  Drainage Patterns (B10)  Surface Water Table (A2)  Saturation (A3)  Marl Deposits (B15)  Presence of Reduced Iron (C4)  Sati Deposits (B1)  Prisence of Reduced Iron (C4)  Sati Deposits (B1)  Dry-Season Water Table (C2)  Stunted or Stressed Plants (D1)  Drift Deposits (B3)  Other (Explain in Remarks)  Geomorphic Position (D2)  Surface Soil Cracks (B6)  FAC-neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:   | Primary Indicators (any one is sufficient)  Surface Water (A1)  Inundation Visible on Aerial Imagery (B7)  Drainage Patterns (B10)  Surface Water Table (A2)  Saturation (A3)  Marl Deposits (B15)  Presence of Reduced Iron (C4)  Sati Deposits (B1)  Prisence of Reduced Iron (C4)  Sati Deposits (B1)  Dry-Season Water Table (C2)  Stunted or Stressed Plants (D1)  Drift Deposits (B3)  Other (Explain in Remarks)  Geomorphic Position (D2)  Surface Soil Cracks (B6)  FAC-neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:   | HYDROLOGY  |   |                                       |  |   |                             |                  |  |   |
| □ Surface Water (A1) □ Inundation Visible on Aerial Imagery (B7) □ Drainage Patterns (B10) □ High Water Table (A2) □ Sparsely Vegetated Concave Surface (B8) □ Oxidized Rhizospheres along Living Roots (C3) □ Saturation (A3) □ Marl Deposits (B15) □ Presence of Reduced Iron (C4) □ Salt Deposits (C5) □ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Sediment Present? Yes □ No ● Depth (inches): Wetland Hydrology Present? Yes □ No ● Depth (inches): □ Depth (inc | □ Surface Water (A1) □ Inundation Visible on Aerial Imagery (B7) □ Drainage Patterns (B10) □ High Water Table (A2) □ Sparsely Vegetated Concave Surface (B8) □ Oxidized Rhizospheres along Living Roots (C3) □ Saturation (A3) □ Marl Deposits (B15) □ Presence of Reduced Iron (C4) □ Salt Deposits (C5) □ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Drift Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Sediment Deposits (B5) □ Depth (inches): □ Depth (in |  |   |                                       |  |   |                             |                  |  |   |
| High Water Table (A2)   | High Water Table (A2)   |  |   |                                       |  |   |                             |                  |  |   |
| Saturation (A3)   | Saturation (A3)   | Primary Indicators (any one  |   | )                                     |  |   |                             |                  | Water Stai   | ned Leaves (B9)   |
| Water Marks (B1)  | Water Marks (B1)  | Primary Indicators (any one Surface Water (A1)   | e is sufficient)  | )                                     |  |   | _                           |                  | Water Stai Drainage F  | ned Leaves (B9)<br>Patterns (B10)   |
| Sediment Deposits (B2)  | Sediment Deposits (B2)  | Primary Indicators (any one Surface Water (A1) High Water Table (A2)   | e is sufficient)  | )                                     | Sparsely Veg   | getated Conc  | _                           |                  | ☐ Water Stai☐ Drainage F☐ Oxidized R   | ned Leaves (B9)<br>Patterns (B10)<br>hizospheres along Living Roots (C3)  |
| □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5)  Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ③ Depth (inches): Saturation Present? Yes ○ No ③ Depth (inches):  Saturation Present? Yes ○ No ④ Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5)  Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ③ Depth (inches): Saturation Present? Yes ○ No ③ Depth (inches):  Saturation Present? Yes ○ No ④ Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3)   | e is sufficient)  |                                       | Sparsely Veg   | getated Conc<br>ts (B15)  | cave Surfac                 |                  | Water Stai Drainage F Oxidized R Presence of   | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)  |
| Algal Mat or Crust (B4)  ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6)  FAC-neutral Test (D5)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Algal Mat or Crust (B4)  ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6)  FAC-neutral Test (D5)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)  | e is sufficient)  | )                                     | Sparsely Veg Marl Deposit Hydrogen St  | getated Conc<br>ts (B15)<br>ulfide Odor (G  | cave Surfac                 |                  | Water Stai Drainage F Oxidized R Presence c Salt Depos   | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)   |
| ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Cincludes capillary fringe) Yes No Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5)  Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ② Depth (inches): Saturation Present? Yes ○ No ② Depth (inches): Saturation Present? Yes ○ No ② Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:  | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)   | e is sufficient)  | )                                     | Sparsely Ved Marl Deposit Hydrogen St Dry-Season   | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table                                 | cave Surface<br>C1)<br>(C2) |                  | Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or  | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1)  |
| Surface Soil Cracks (B6)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Surface Soil Cracks (B6)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)   | e is sufficient)  |                                       | Sparsely Ved Marl Deposit Hydrogen St Dry-Season   | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table                                 | cave Surface<br>C1)<br>(C2) |                  | Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph                                   | ned Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) If Reduced Iron (C4) Patterns (C5) Stressed Plants (D1) Patterns (D2)   |
| Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):   | Surface Water Present? Yes No Pepth (inches):  Water Table Present? Yes No Pepth (inches):  Saturation Present? Yes No Pepth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:  | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)   | e is sufficient)  |                                       | Sparsely Ved Marl Deposit Hydrogen St Dry-Season   | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table                                 | cave Surface<br>C1)<br>(C2) |                  | Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ac                        | ned Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) If Reduced Iron (C4) Patterns (C5) Stressed Plants (D1) Patterns (D2) Patterns (D3)                               |
| Water Table Present? Yes No Depth (inches):  Saturation Present? (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Water Table Present? Yes No Depth (inches):  Saturation Present? (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)  | e is sufficient)  |                                       | Sparsely Ved Marl Deposit Hydrogen St Dry-Season   | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table                                 | cave Surface<br>C1)<br>(C2) |                  | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog            | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)               |
| Saturation Present? (includes capillary fringe)  Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Saturation Present? (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:  | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)   | e is sufficient)  |                                       | Sparsely Ved Marl Deposit Hydrogen St Dry-Season   | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table                                 | cave Surface<br>C1)<br>(C2) |                  | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog            | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)               |
| (includes capillary fringe)  Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:  | (includes capillary fringe)  Tes Vivo Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:  | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)   | e is sufficient)  2)  |                                       | Sparsely Veg Marl Deposi Hydrogen St Dry-Season Other (Expla   | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table<br>ain in Remark                | cave Surface<br>C1)<br>(C2) |                  | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog            | ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)               |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  Remarks:   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present?  | e is sufficient)  2)  (2)  (3)  Yes   | No ●                                  | Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla  | getated Conc<br>ts (B15)<br>ulfide Odor (<br>Water Table<br>ain in Remark                 | cave Surface<br>C1)<br>(C2) | e (B8)           | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) juraphic Relief (D4) il Test (D5) |
|   |   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Water Present? Water Table Present? Saturation Present?   | e is sufficient)  2)  Yes  Yes  Yes   | No ◉<br>No ◉                          | Sparsely Veg Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch                                      | getated Conc<br>ts (B15)<br>ulfide Odor (I<br>Water Table<br>ain in Remark<br>es):        | cave Surface<br>C1)<br>(C2) | e (B8)           | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) juraphic Relief (D4) il Test (D5) |
|   |   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)                                 | e is sufficient)  Property of the property of | No ●<br>No ●<br>No ●                  | Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla  | getated Conc<br>ts (B15)<br>ulfide Odor (<br>Water Table<br>ain in Remark<br>es):<br>es): | C1)<br>(C2)<br>(Cs)         | Wetlan           | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) juraphic Relief (D4) il Test (D5) |
| no wedand nydrology indicators observed. Willow at base saturated.  | no wedand nydrology indicators observed. Willow at base saturated.  | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (state)  | e is sufficient)  Property of the property of | No ●<br>No ●<br>No ●                  | Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla  | getated Conc<br>ts (B15)<br>ulfide Odor (<br>Water Table<br>ain in Remark<br>es):<br>es): | C1)<br>(C2)<br>(Cs)         | Wetlan           | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) juraphic Relief (D4) il Test (D5) |
|   |   | Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (street) | e is sufficient)  Yes O  Yes O  Yes O  Yes O  ream gauge,   | No ●<br>No ●<br>No ●<br>monitor well, | Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Explain  Depth (inch Depth (inch Depth (inch Depth (inch | getated Conc<br>ts (B15)<br>ulfide Odor (<br>Water Table<br>ain in Remark<br>es):<br>es): | C1)<br>(C2)<br>(Cs)         | Wetlan           | Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra | ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) juraphic Relief (D4) il Test (D5) |

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