## WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project  |  | Borough/City:                  | Matanusk          | a-Susitna Borough  | Sampling Date:                      | 26-Aug-15                                |  |
|---|--|--------------------------------|-------------------|--|-------------------------------------|--|--|
| Applicant/Owner: Alaska Energy Authority  |  |                                |                   | Samp   | ling Point: S                       | W15_T347_02                              |  |
| nvestigator(s): AFW   |  | Landform (hill:                | side, terrac      | e, hummocks etc.):   | Channel (active                     |  |  |
| Local relief (concave, convex, none): none  |  | Slope: 3.5                     | %/ 2.0            | * Elevation:   | <u>.</u>                            |  |  |
| Subregion : Interior Alaska Mountains   | Lat.:                                  |                                | _                 | Long.:   |                                     | Datum: WGS84                             |  |
| Soil Map Unit Name:   |  |                                |                   |  | sification: R3UB                    | ан — — — — — — — — — — — — — — — — — — — |  |
| Are Vegetation $\checkmark$ , Soil $\checkmark$ , or Hydrology $\Box$ r<br>SUMMARY OF FINDINGS - Attach site map show | significant<br>naturally p<br>wing sai | tly disturbed?<br>problematic? | Are "N<br>(If nee | (If no, explain i<br>ormal Circumstances<br>ded, explain any ans<br>s, transects, impo | s" present? Yes<br>wers in Remarks. |  |  |
| Hydrophytic Vegetation Present? Yes  No   |  |                                | the Com           | mlad Area  |                                     |  |  |
| Hydric Soil Present? Yes  No  |  |                                |                   | npled Area<br>Vetland? Yes $\odot$ No $\bigcirc$                                       |                                     |  |  |
| Wetland Hydrology Present? Yes $ullet$ No $igcap$   | )                                      | WI                             | thin a W          | etiand?  |                                     |  |  |
| VEGETATION - Use scientific names of plants. Li   | st all sp<br>Absolute                  |                                |                   | Dominance Test wo  |                                     |  |  |
| Tree Stratum  | % Cove                                 | r Species?                     | Status            | Number of Dominant<br>That are OBL, FACW   |                                     | 0 (A)                                    |  |
| 1.  |  |                                |                   | Total Number of Dom  |                                     |  |  |
| 2.  |  |                                |                   | Species Across All S   | trata:                              | (B)                                      |  |
| 3   |  |                                |                   | Percent of dominant<br>That Are OBL, FACW  |                                     | 0.0% (A/B)                               |  |
| 5.  | 0                                      |                                |                   |  | , or FAC                            | (A/B)                                    |  |
| Total Cover:  |  |                                |                   | Prevalence Index w<br>Total % Cove   |                                     | , hu                                     |  |
|   |  | –<br>% of Total Cover:         | 0                 | OBL Species  | r of: Multiply<br>0 x 1 =           |  |  |
|   |  |                                |                   | FACW Species   |                                     |  |  |
| 1   |  |                                |                   | FAC Species  |                                     |  |  |
|   | -                                      |                                |                   | FACU Species   |                                     |  |  |
| 3.       4.   |  |                                |                   | UPL Species  |                                     |  |  |
| 5.  |  |                                |                   | Column Totals  | : 0 (A)                             | 0 (B)                                    |  |
| 6.  |  |                                |                   |  |                                     |  |  |
| 7.  |  |                                |                   | Prevalence Inc   | dex = B/A =                         | 0.000                                    |  |
| 8.  |  |                                |                   | Hydrophytic Vegeta   | ation Indicators:                   |  |  |
| 9   |  |                                |                   | Dominance Test   | : is > 50%                          |  |  |
| 10  |  |                                |                   | Prevalence Inde  | x is ≤3.0                           |  |  |
| Total Cover:           Herb Stratum         50% of Total Cover:   | <b>v</b>                               |                                | :                 | Remarks or on a  | separate sheet)                     | e supporting data in                     |  |
| 1   | 0                                      |                                |                   | Problematic Hyd  |                                     |  |  |
| 2   |  |                                |                   | <sup>1</sup> Indicators of hydric s  | soil and wetland hyd                | rology must                              |  |
| 3   |  | - <u> </u>                     |                   | be present, unless dis   | sturbed or problema                 | tiC.                                     |  |
| 4   | -                                      | -                              |                   | Plot size (radius, or le   | ength x width)                      | 2x5m                                     |  |
| 5   | •                                      |                                |                   | % Cover of Wetland   | Bryophytes                          |  |  |
| 6   |  |                                |                   | (Where applicable)   |                                     |  |  |
| 7   |  |                                |                   | % Bare Ground  | a too                               | 100                                      |  |
| 8<br>9  |  |                                |                   | Total Cover of Bryoph  | iyies                               |  |  |
|   | 0                                      |                                |                   | Hydrophytic  |                                     |  |  |
| Total Cover:  | 0                                      | _                              |                   | Vegetation   | ~ ~                                 |  |  |
| 50% of Total Cover:   | 0 209                                  | % of Total Cover:              | 0                 | Present?   | Yes 🔍 No 🖯                          | i -                                      |  |
|   | 0                                      |                                | 0                 |  | Yes 🔍 No 🖯                          | )  |  |

| Profile Descript<br>Depth        | -                 | on: (Describe to the depth needed to docu<br>Matrix |             | Iment the indicator or confirm the absence of indicators)<br>Redox Features |             |                   |                         |   |                            |            |  |
|----------------------------------|-------------------|---|-------------|---|-------------|-------------------|-------------------------|---|----------------------------|------------|--|
| (inches)                         | Color (moi        | st)   | %           | Color (moist)   | %           | Type <sup>1</sup> | <b>Loc</b> <sup>2</sup> | Texture                                     | Remarks                    |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  | · ·               |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   | P                          |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  | ncentration D=    | Depletion   | RM=Reduce   | ed Matrix <sup>2</sup> Location   | PI = Por    | elinina RC        | =Root Cha               | nnel M=Matrix                               | -                          |            |  |
|                                  |                   | Depiction.  | AT-Reduce   | Indicators for Pr   |             |                   |                         |   |                            |            |  |
| Hydric Soil I                    |                   |   |             |   |             | 4                 | olis:                   |   |                            |            |  |
| Histosol or Histel (A1)          |                   |   |             |   |             | -                 |                         | Alaska Gleyed Without H<br>Underlying Layer | ue 5Y or Redder            |            |  |
|                                  | oedon (A2)        |   |             | Alaska Alpine s   | •           | ,                 | ~                       |   |                            |            |  |
|                                  | Sulfide (A4)      |   |             | Alaska Redox V  | Vith 2.5Y F | lue               | V                       | Other (Explain in Remark                    | 5)                         |            |  |
|                                  | k Surface (A12)   |   |             | <sup>3</sup> One indicator of   | hydrophyt   | ric vegetatio     | n one prin              | nary indicator of wetland h                 | vdrology                   |            |  |
| Alaska Gle                       |                   |   |             | and an appropriat   |             |                   |                         |   | yarology,                  |            |  |
| Alaska Re                        | . ,               |   |             | <sup>4</sup> Give details of co   | olor chang  | o in Pomark       | c                       |   |                            |            |  |
| Alaska Gle                       | eyed Pores (A15   | )   |             |   |             |                   | .5                      |   |                            |            |  |
| Restrictive Lay                  | er (if present):  |   |             |   |             |                   |                         |   |                            |            |  |
| Type:                            |                   |   |             |   |             |                   |                         | Hydric Soil Present                         | ? Yes $ullet$ No $igcap$   | )          |  |
| Depth (incl                      | nes):             |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
| HYDROLO                          | -                 |   |             |   |             |                   |                         |   |                            |            |  |
|                                  | rology Indicat    |   |             |   |             |                   |                         |   | cators (two or more are re | equired)   |  |
|                                  | ators (any one is | sufficient)   |             |   |             |                   |                         |   | ned Leaves (B9)            |            |  |
| Surface Water (A1)               |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  | er Table (A2)     |   |             | Sparsely Veg  |             | ncave Surfac      | ce (B8)                 | _   | hizospheres along Living I | Roots (C3) |  |
| Saturation                       | . ,               |   |             | Marl Deposite   | . ,         |                   |                         | _   | f Reduced Iron (C4)        |            |  |
| Water Ma                         |                   |   |             | Hydrogen Su   |             |                   |                         | Salt Depos                                  |                            |            |  |
|                                  | Deposits (B2)     |   |             | Dry-Season \  |             | • •               |                         | _   | Stressed Plants (D1)       |            |  |
| Drift Dep                        | . ,               |   |             | Other (Explai   | in in Rema  | rks)              |                         | Geomorphi                                   |                            |            |  |
|                                  | or Crust (B4)     |   |             |   |             |                   |                         |   | uitard (D3)                |            |  |
| Iron Depo                        | . ,               |   |             |   |             |                   |                         |   | raphic Relief (D4)         |            |  |
|                                  | oil Cracks (B6)   |   |             |   |             |                   |                         | FAC-neutra                                  | T Test (D5)                |            |  |
| Field Observa                    |                   | Yes 🖲   |             | Dauth (in sha   | -). 20      |                   |                         |   |                            |            |  |
| Surface Wate                     |                   |   |             | Depth (inche  | s): 30      |                   |                         |   |                            | <u>`</u>   |  |
| Water Table F                    |                   | Yes $\bigcirc$                                      |             | Depth (inche  | s):         |                   | Wetla                   | nd Hydrology Presen                         | t? Yes 🖲 No 🤇              | )          |  |
| Saturation Pre<br>(includes capi |                   | Yes $\bigcirc$                                      | No 🖲        | Depth (inche  | s):         |                   |                         |   |                            |            |  |
| Describe Recor                   | ded Data (strea   | am gauge, i   | monitor wel | l, aerial photos, prev  | vious inspe | ection) if ava    | ilable:                 |   |                            |            |  |
| Remarks:                         |                   |   |             |   |             |                   |                         |   |                            |            |  |
| perennial strea                  | ım channel        |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |
|                                  |                   |   |             |   |             |                   |                         |   |                            |            |  |