## WETLAND DETERMINATION DATA FORM - Alaska Region

| roject/Site: Susitna-Watana Hydroelectric Project  | Bo  | orough/City:                                      | Matanusk             | ka-Susitna Borough Sampling Date: 31-Jul-13  |  |  |
|--|---|---|----------------------|--|--|--|
| pplicant/Owner: Alaska Energy Authority  | Sampling Point: SW13_T154_10  |   |                      |  |  |  |
| vestigator(s): BAB   | l   | _andform (hill                                    | lside, terrac        | ce, hummocks etc.): pond   |  |  |
| ocal relief (concave, convex, none): concave   |   | Slope:  | % / 16.1             | 1 ° Elevation: 114   |  |  |
| ubregion : Interior Alaska Mountains   | Lat.: 6   | 3.249235739                                       | 96                   | Long.: -148.405007003 Datum: NAD83   |  |  |
| oil Map Unit Name:   |   |   |                      | NWI classification: PUBH   |  |  |
| re climatic/hydrologic conditions on the site typical for this   | time of year?   | ) Ves   | • No O               |  |  |  |
| Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology<br>Are Vegetation , Soil , or Hydrology<br>UMMARY OF FINDINGS - Attach site map sh | significantly<br>naturally pro<br>owing sam   | disturbed?<br>oblematic?                          | Are "N<br>(If nee    | Normal Circumstances" present? Yes $\bigcirc$ No $\bigcirc$ eded, explain any answers in Remarks.) |  |  |
| Hydrophytic Vegetation Present? Yes 🖲 No   | 0   | la  | the Com              |  |  |  |
| Hydric Soil Present? Yes 🏵 No  |   | Impled Area<br>Wetland? Yes $\odot$ No $\bigcirc$ |                      |  |  |  |
| Wetland Hydrology Present? Yes 🔍 No  | 0   | W   | ithin a W            | retiand? fes lo lo   |  |  |
| <b>EGETATION</b> - Use scientific names of plants.   |   |   | -                    | Dominance Test worksheet:  |  |  |
| Tree Stratum   | Absolute<br>% Cover   | Dominant<br>Species?                              | Indicator<br>Status  | Number of Dominant Species   |  |  |
| 1  | 0   |   |                      | That are OBL, FACW, or FAC: (A)  |  |  |
| 0  |   |   |                      | Total Number of Dominant<br>Species Across All Strata: <b>0</b> (B)                                |  |  |
| 2.<br>3.   |   |   |                      |  |  |  |
| 4.   | 0   |   |                      | Percent of dominant Species<br>That Are OBL, FACW, or FAC: 0.0% (A/B)                              |  |  |
| 4<br>5   | 0   |   |                      |  |  |  |
| Total Cove   | er: 0   |   |                      | Prevalence Index worksheet:<br>Total % Cover of: Multiply by:                                      |  |  |
| Sapling/Shrub Stratum 50% of Total Cover:  | 0 20%   | of Total Cover:                                   | . 0                  | OBL Species $0 \times 1 = 0$   |  |  |
| 1  | 0   |   |                      | FACW Species $0 \times 2 = 0$  |  |  |
| 1<br>2   |   |   |                      | FAC Species $0 \times 3 = 0$   |  |  |
| •  |   |   |                      | FACU Species $0 \times 4 = 0$  |  |  |
|  |   |   |                      | UPL Species $0 \times 5 = 0$   |  |  |
| 4<br>5   |   |   |                      |  |  |  |
| 6.   |   | $\square$   |                      | Column Totals: <u>0</u> (A) <u>0</u> (B)   |  |  |
| 7.   |   |   |                      | Prevalence Index = B/A =0.000  |  |  |
| 8.   | 0   |   |                      | Hydrophytic Vegetation Indicators:   |  |  |
| 9.   | 0   |   |                      | Dominance Test is > 50%  |  |  |
| 10.  | 0   |   |                      | Prevalence Index is ≤3.0   |  |  |
| Total Cove   | er:   |   |                      | Morphological Adaptations <sup>1</sup> (Provide supporting data in                                 |  |  |
| Herb Stratum 50% of Total Cover:   | 20%   | of Total Cover                                    | r: <u>    0     </u> | Remarks or on a separate sheet)  |  |  |
| 1  | 0   |   |                      | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  |  |  |
| 2  |   |   |                      | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                                  |  |  |
| 3  | 0   |   | . <u> </u>           | be present, unless disturbed or problematic.   |  |  |
|  | 0   |   |                      | Plot size (radius, or length x width) 10m  |  |  |
| 4  | 0   |   |                      | % Cover of Wetland Bryophytes  |  |  |
| 4<br>5   |   |   |                      |  |  |  |
| 5.           6.  | 0   |   |                      | (Where applicable)   |  |  |
| 5.           6.           7.   | 0   |   |                      | % Bare Ground <u>100</u>   |  |  |
| 5.   | 0<br>0<br>0   |   |                      |  |  |  |
| 5.   |   |   |                      | % Bare Ground<br>Total Cover of Bryophytes   |  |  |
| 5.   | 0           0           0           0           0           0           0           0           0 |   |                      | % Bare Ground <u>100</u>   |  |  |

| Profile Description: (Describe to the   |  |  |                      |                           |  |                    |                  |  |
|---|--|--|----------------------|---------------------------|--|--------------------|------------------|--|
| Depth (inches) Color (moist   | :) %   | Color (moist)                                      | % Type               | 1 <u>Loc</u> <sup>2</sup> | Texture  | R                  | emarks           |  |
|   |  |  |                      |                           |  |                    |                  |  |
|   |  |  |                      |                           |  | -                  |                  |  |
| ·   |  |  |                      |                           |  |                    |                  |  |
|   |  |  |                      |                           |  |                    |                  |  |
|   |  |  |                      |                           |  |                    |                  |  |
|   |  |  |                      |                           |  | B                  |                  |  |
|   |  |  |                      |                           |  |                    |                  |  |
|   |  |  | ·                    |                           |  |                    |                  |  |
|   |  |  |                      |                           |  |                    |                  |  |
| <sup>1</sup> Type: C=Concentration. D=D   | epletion. RM=Redu  | ced Matrix <sup>2</sup> Location                   | n: PL=Pore Lining    | . RC=Root Cha             | annel. M=Matrix  |                    |                  |  |
| Hydric Soil Indicators:   |  | Indicators for Pr                                  | oblematic Hydri      | c Soils <sup>3</sup>      |  |                    |                  |  |
| _   |  | _  | 4                    | C 001151                  | ] Alaska Gleyed Without H  | ue 5Y or Redder    |                  |  |
| Histosol or Histel (A1)       Alaska Color Change (TA4)         Histic Epipedon (A2)       Alaska Alpine swales (TA5) |  |  |                      | Underlying Layer          |  |                    |                  |  |
| Hydrogen Sulfide (A4)   |  | Alaska Redox V                                     |                      | $\checkmark$              | Other (Explain in Remark   | s)                 |                  |  |
| Thick Dark Surface (A12)  |  |  |                      |                           |  |                    |                  |  |
| Alaska Gleyed (A13)   |  | <sup>3</sup> One indicator of<br>and an appropriat |                      |                           | mary indicator of wetland h  | ydrology,          |                  |  |
| Alaska Redox (A14)  |  |  |                      |                           | esent  |                    |                  |  |
| Alaska Gleyed Pores (A15)   |  | <sup>4</sup> Give details of c                     | olor change in Rer   | narks                     |  |                    |                  |  |
| Restrictive Layer (if present):   |  |  |                      |                           |  |                    |                  |  |
| Туре:   |  |  |                      |                           | Hydric Soil Present  | ?Yes 🖲             | No O             |  |
| Depth (inches):   |  |  |                      |                           | •  |                    |                  |  |
| pond, assume hydric soil.   |  |  |                      |                           |  |                    |                  |  |
| HYDROLOGY   |  |  |                      |                           |  |                    |                  |  |
| Wetland Hydrology Indicato  | ors:   |  |                      |                           | Secondary Indi   | cators (two or mo  | re are required) |  |
| Primary Indicators (any one is  | sufficient)  |  |                      |                           | _  | ned Leaves (B9)    |                  |  |
| Surface Water (A1) Inundation Visible on Aerial Imagery (B7)  |  |  |                      |                           | Drainage Patterns (B10)  |                    |                  |  |
|   | ☐ High Water Table (A2)       ✓ Sparsely Vegetated Concave Surface (B8)         ☐ a to this (12)       ✓ Sparsely Vegetated Concave Surface (B8) |  |                      |                           | Oxidized Rhizospheres along Living Roots (C3)  Presence of Reduced Iron (C4) |                    |                  |  |
| Saturation (A3) Water Marks (B1)  |  | Marl Deposit:                                      |                      |                           | Salt Deposits (C5)   |                    |                  |  |
| Sediment Deposits (B2)  |  | Dry-Season V                                       |                      |                           | Stunted or Stressed Plants (D1)  |                    |                  |  |
| Drift Deposits (B3)   |  | _ `  | n in Remarks)        |                           | Geomorphic Position (D2)   |                    |                  |  |
| Algal Mat or Crust (B4)   |  |  | in in recinance)     |                           |  | uitard (D3)        |                  |  |
| Iron Deposits (B5)  |  |  |                      |                           |  | raphic Relief (D4) | )                |  |
| Surface Soil Cracks (B6)  |  |  |                      |                           | FAC-neutra   | l Test (D5)        |                  |  |
| Field Observations:   | 0 -  |  |                      |                           |  |                    |                  |  |
| Surface Water Present?  | Yes <ul> <li>No O</li> </ul>   | Depth (inche                                       | s): 100              |                           |  |                    |                  |  |
| Water Table Present?  | $_{\rm Yes} \odot \ _{\rm No} \odot$   | Depth (inche                                       | s):                  | Wetla                     | nd Hydrology Presen  | t?Yes 🖲            | No $\bigcirc$    |  |
| Saturation Present?<br>(includes capillary fringe)  | Yes 🔿 No 🖲   | Depth (inche                                       |                      |                           |  |                    |                  |  |
| Describe Recorded Data (strean  | n gauge, monitor w   | ell, aerial photos, pre                            | vious inspection) in | f available:              |  |                    |                  |  |
|   |  |  |                      |                           |  |                    |                  |  |