## WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project  | Borough/City:   | Matanuska-Susitna Borough Sampling  | Date: 07-Aug-13 |  |  |  |
|---|---|---|-----------------|--|--|--|
| Applicant/Owner: Alaska Energy Authority  |   | Sampling Point:   | SW13_T196_05    |  |  |  |
| Investigator(s): SLI, EAC   | Landform (hills   | Landform (hillside, terrace, hummocks etc.): Pothole  |                 |  |  |  |
| Local relief (concave, convex, none): concave   | Slope: 0.0  | % / 0.0 ° Elevation: 867  |                 |  |  |  |
| Subregion : Interior Alaska Mountains   | Lat.: 63.304160833  | Long.: -148.21247375  | Datum: WGS84    |  |  |  |
| Soil Map Unit Name:   |   | NWI classification:   | PUSC            |  |  |  |
|   | of year? Yes (<br>ificantly disturbed?<br>urally problematic? | <ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present?</li> <li>(If needed, explain any answers in Remarks)</li> </ul> | Yes 💿 No 🔿      |  |  |  |
| SUMMARY OF FINDINGS - Attach site map showin  | g sampling point  | locations, transects, important featu   | ıres, etc.      |  |  |  |
| 1 + 1 + 1 + 1 = 1 + 1 + |   |   |                 |  |  |  |

| Hydrophytic Vegetation Present?<br>Hydric Soil Present?<br>Wetland Hydrology Present? | Yes ●<br>Yes ●<br>Yes ● | · _    | Is the Sampled Area within a Wetland? | Yes 🖲 No 🔾 |
|---|-------------------------|--------|---------------------------------------|------------|
| Remarks: Seasonnally flooded, unvege  | tated depre             | ession |                                       |            |

## **VEGETATION** - Use scientific names of plants. List all species in the plot.

|   | Absolute | Dominant          | Indicator | Dominance Test worksheet:   |  |  |
|---|----------|-------------------|-----------|---|--|--|
| Tree Stratum                              | % Cover  | Species?          | Status    | Number of Dominant Species  |  |  |
| 1.  | 0        |                   |           | That are OBL, FACW, or FAC: (A)                                       |  |  |
| 2.  | 0        |                   |           | Total Number of Dominant<br>Species Across All Strata: 0 (B)          |  |  |
| 3.  |          |                   |           |   |  |  |
| 4.  |          |                   |           | Percent of dominant Species<br>That Are OBL, FACW, or FAC: 0,0% (A/B) |  |  |
| <b>7</b>                                  | 0        |                   |           |   |  |  |
| Total Cove                                |          |                   |           | Prevalence Index worksheet:<br>Total % Cover of: Multiply by:         |  |  |
| Sapling/Shrub Stratum 50% of Total Cover: |          | of Total Cover:   | 0         |   |  |  |
|   |          |                   |           |   |  |  |
| 1   |          |                   |           |   |  |  |
| 2   | 0        |                   |           | FAC Species <u>0</u> x 3 = <u>0</u>                                   |  |  |
| 3   | 0        |                   |           | FACU Species x 4 =  |  |  |
| 4.  | 0        |                   |           | UPL Species x 5 =   |  |  |
| 5   | 0        |                   |           | Column Totals:0 (A)0 (B)  |  |  |
| 6   |          |                   |           | Prevalence Index = B/A = 0.000  |  |  |
| 7   |          |                   |           | Prevalence Index = B/A =0.000   |  |  |
| 8   |          |                   |           | Hydrophytic Vegetation Indicators:                                    |  |  |
| 9   |          |                   |           | Dominance Test is > 50%   |  |  |
| 10  | 0        |                   |           | Prevalence Index is ≤3.0  |  |  |
| Total Cove                                | r: 0     |                   |           | Morphological Adaptations <sup>1</sup> (Provide supporting data in    |  |  |
| Herb Stratum 50% of Total Cover:          | 0 20%    | 6 of Total Cover: | 0         | 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   |          |                   |           | be present, unless disturbed or problematic.                          |  |  |
| 4.  |          |                   |           | Diat size (radius, ar length y width)                                 |  |  |
| 5   |          |                   |           | Plot size (radius, or length x width) <u>5m</u>                       |  |  |
| 6   |          |                   |           | % Cover of Wetland Bryophytes<br>(Where applicable)                   |  |  |
| 7.  |          |                   |           | % Bare Ground   |  |  |
| 8   |          |                   |           | Total Cover of Bryophytes   |  |  |
| 9.  |          |                   |           |   |  |  |
| 10.                                       | 0        |                   |           | Hydrophytic   |  |  |
| Total Cove                                |          |                   |           | Vegetation  |  |  |
|   | r: 0     |                   |           |   |  |  |
| 50% of Total Cover:                       |          | of Total Cover:   | 0         | Present? Yes No O   |  |  |

| Profile Description: (Describe to the depth needed to docu<br>Matrix |                           |               |                                 | onfirm the ab<br>dox Featu |                   | ators)                            |   |   |
|--|---------------------------|---------------|---------------------------------|----------------------------|-------------------|-----------------------------------|---|---|
| Depth<br>(inches)  | Color (moist)             | %             | Color (moist)                   | %                          | Type <sup>1</sup> | 2                                 | Texture                                       | Remarks   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  | , ·                       |               |                                 |                            |                   |                                   |   |   |
|  | , ·                       |               |                                 |                            |                   |                                   |   |   |
| <sup>1</sup> Type: C=Cor   | ncentration. D=Depleti    | on. RM=Reduce | ed Matrix <sup>2</sup> Location | n: PL=Por                  | e Lining. RC      | C=Root Cha                        | nnel. M=Matrix                                |   |
| Hydric Soil I  | ndicators:                |               | Indicators for Pr               |                            |                   | oils: <sup>3</sup>                |   |   |
| Histosol o   | r Histel (A1)             |               | Alaska Color C                  | • •                        | ,                 |                                   | Alaska Gleyed Without Hue                     | e 5Y or Redder  |
| _  | oedon (A2)                |               | Alaska Alpine s                 | •                          | ,                 |                                   | Underlying Layer<br>Other (Explain in Remarks | ١   |
| _ , , ,  | Sulfide (A4)              |               | Alaska Redox \                  | Nith 2.5Y r                | lue               |                                   |   | )   |
|  | k Surface (A12)           |               |                                 |                            |                   |                                   | nary indicator of wetland hy                  | drology,  |
| Alaska Gle   | , , ,                     |               | and an appropriat               | te landscap                | be position i     | must be pre                       | esent   |   |
|  | eyed Pores (A15)          |               | <sup>4</sup> Give details of c  | olor chang                 | e in Remark       | <s< th=""><th></th><th></th></s<> |   |   |
| Restrictive Lay  | er (if present):          |               |                                 |                            |                   |                                   |   |   |
| Туре:  | - (· · · · · · )          |               |                                 |                            |                   |                                   | Hydric Soil Present?                          | Yes 💿 No 🔿  |
| Depth (incl  | hes):                     |               |                                 |                            |                   |                                   | •   |   |
| Remarks:   |                           |               |                                 |                            |                   | ·                                 |   |   |
| pond with talus  | s substrate, assume hy    | dric soils.   |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
|  |                           |               |                                 |                            |                   |                                   |   |   |
| HYDROLO  | GY                        |               |                                 |                            |                   |                                   |   |   |
| -  | rology Indicators:        |               |                                 |                            |                   |                                   |   | ators (two or more are required)                        |
|  | ators (any one is suffici | ent)          |                                 |                            |                   |                                   |   | ed Leaves (B9)  |
| Surface W  | ( )                       |               | Inundation V                    |                            | -                 |                                   | Drainage Pa                                   |   |
| Saturation   | er Table (A2)<br>n (A3)   |               | Sparsely Veg                    |                            | icave Surra       | ce (B8)                           |   | izospheres along Living Roots (C3)<br>Reduced Iron (C4) |
| ✓ Water Ma   | . ,                       |               | Hydrogen Su                     | • •                        | (C1)              |                                   | Salt Deposit                                  |   |
|  | Deposits (B2)             |               | Dry-Season                      |                            | . ,               |                                   |   | Stressed Plants (D1)                                    |
| Drift Dep  | ,                         |               | Other (Expla                    |                            | . ,               |                                   | _   | Position (D2)   |
| 🖌 Algal Mat  | or Crust (B4)             |               | — 、                             |                            | ,                 |                                   | Shallow Aqu                                   | itard (D3)  |
| Iron Depo  | osits (B5)                |               |                                 |                            |                   |                                   | Microtopogr                                   | aphic Relief (D4)                                       |

Surface Soil Cracks (B6)

 Surface Water Present?
 Yes
 No
 Depth (inches): 6

 Water Table Present?
 Yes
 No
 Depth (inches):

 Saturation Present?
 Yos
 No
 Depth (inches):

Saturation Present? Yes No 
Depth (inches):

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

## Remarks:

water marks on rocks indicate water 2.5ft below max. depression fringes w scattered carsax, dried algae.

Yes 💿 No 🔾

FAC-neutral Test (D5)

Wetland Hydrology Present?