WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | Borough/City: | Matanuska-Susitna Borough Sampling Dat | e: 03-Jul-13 |
|------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|--------------|
| Applicant/Owner: Alaska Energy Authority | | Sampling Point: | SW13_T182_01 |
| Investigator(s): JER | Landform (hill | side, terrace, hummocks etc.): Flat | |
| Local relief (concave, convex, none): flat | Slope: 0.0 | % / 0.0 ° Elevation: 893 | |
| Subregion : Interior Alaska Mountains Lat | t.: 62.873628974 | Long.: -148.596225262 | Datum: WGS84 |
| Soil Map Unit Name: | | NWI classification: PUE | 3H |
| | antly disturbed? ly problematic? | (If needed, explain any answers in Remark | , |
| | | | 5, ElC. |
| Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ | | the Sampled Area | |

within a Wetland?

Yes 💿 No 🔾

Wetland Hydrology Present? Remarks: small pond w 2 outflow swales

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

Yes 🕙 No 🔿

| | | Absolute | Dominant | Indicator | Dominance Test worksheet: | | | | |
|---------------------------|------------------------------|--------------------------------------------------------------------|-----------------|------------|-------------------------------------------------------------------------------------|--|--|--|--|
| Tree Stratum | | % Cover | Species? | Status | Number of Dominant Species | | | | |
| 1. | | 0 | | | That are OBL, FACW, or FAC: 0 (A) | | | | |
| 2. | | 0 | | | Total Number of Dominant Species Across All Strata: 0 (B) | | | | |
| 3 | | 0 | | | Percent of dominant Species | | | | |
| 1 | | | | | That Are OBL, FACW, or FAC:0.0% (A/B) | | | | |
| 5. | | 0 | | | | | | | |
| Total Cover: | | | | | Prevalence Index worksheet: Total % Cover of: Multiply by: | | | | |
| Sapling/Shrub Stratum | 50% of Total Cover: | 0 20% | of Total Cover: | 0 | OBL Species 0 x 1 = 0 | | | | |
| 1. | | 0 | | | FACW Species $0 \times 2 = 0$ | | | | |
| 2. | | | | | FAC Species 0 x 3 = 0 | | | | |
| 3. | | 0 | | | FACU Species 0 x 4 = 0 | | | | |
| | | - | | | UPL Species $0 \times 5 = 0$ | | | | |
| - | | | | | Column Totals: <u>0</u> (A) <u>0</u> (B) | | | | |
| 6. | | | | | | | | | |
| 7. | | | | | Prevalence Index = B/A = <u>1.000</u> | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | |
| 9. | | | | | Dominance Test is > 50% | | | | |
| 10. | | 0 | | | Prevalence Index is ≤3.0 | | | | |
| - | Total Cover: | Morphological Adaptations ¹ (Provide supporting data in | | | | | | | |
| Herb Stratum | 50% of Total Cover: | 0 20% | of Total Cover | : | Remarks or on a separate sheet) | | | | |
| 1 | | 0 | | | Problematic Hydrophytic Vegetation ¹ (Explain) | | | | |
| 2 | | | | | ¹ Indicators of hydric soil and wetland hydrology must | | | | |
| 3 | | - | | | be present, unless disturbed or problematic. | | | | |
| 4 | | 0 | | | Plot size (radius, or length x width) 10m | | | | |
| 5 | | | | | Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes 0 | | | | |
| 6 | | 0 | | | (Where applicable) | | | | |
| 7 | | 0 | | | % Bare Ground | | | | |
| 8 | | | | | Total Cover of Bryophytes 0 | | | | |
| 9 | | | | | | | | | |
| 10. | | 0 | | | Hydrophytic | | | | |
| | Total Cover: | 0 | | | Vegetation | | | | |
| | 50% of Total Cover: | 0 20% | of Total Cover: | 0 | Present? Yes No | | | | |
| Remarks: 2% caragu mentri | in pond at fringe notam tr t | too deen | occontially an | unvegetate | ad pond | | | | |

pond at fringe. potam tr too deep. essentially an unvegetated pond.

| SOIL |
|------|
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| | Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features | | | | | | ators) | | | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|---------------------------------|-------------|-------------------|--------------------|-----------------------------|--------------------|-------------------|
| Depth (inches) | | | — | | | | . 2 | Texture | Pa | marks |
| (incres) | Color (moi | st) | <u>%</u> | Color (moist) | % | Type ¹ | Loc 2 | Texture | Ke | marks |
| | | | | | | | | | | |
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| | | | | | | | | | L | |
| ¹ Type: C=Cor | ¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix | | | | | | | | | |
| Hydric Soil I | ndicators: | | | Indicators for Pro | oblemati | c Hydric So | oils: ³ | | | |
| Histosol or | Histel (A1) | | | Alaska Color Ch | ange (TA | 4 1) | | Alaska Gleyed Without H | ue 5Y or Redder | |
| Histic Epip | . , | | | Alaska Alpine s | wales (TA | 5) | | Underlying Layer | | |
| = | Sulfide (A4) | | | Alaska Redox V | Vith 2.5Y F | lue | \checkmark | Other (Explain in Remark | s) | |
| | Surface (A12) | | | | | | | | | |
| Alaska Gle | . , | | | | | | | nary indicator of wetland h | ydrology, | |
| | , , , | | | and an appropriat | e landscap | pe position r | nust be pre | esent | | |
| Alaska Red | | | | ⁴ Give details of co | olor chang | e in Remark | s | | | |
| | yed Pores (A15 |) | | | | | - | | | |
| Restrictive Laye | er (if present): | | | | | | | | | |
| Type: | | | | | | | | Hydric Soil Present | ?Yes 🖲 | No |
| Depth (inch | nes): | | | | | | | - | | |
| Remarks: | | | | | | | | | | |
| | audria apil | | | | | | | | | |
| pond, assume I | iyuric soll. | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| Wetland Hyd | rology Indicat | ors: | | | | | | Secondary Indic | cators (two or mor | e are required) |
| Primary Indica | tors (any one is | sufficient) | | | | | | Water Stair | ned Leaves (B9) | |
| Surface W | /ater (A1) | | | Inundation Vi | isible on A | erial Imager | ry (B7) | 🗌 Drainage P | atterns (B10) | |
| High Wate | er Table (A2) | | | Sparsely Vege | | - | | Oxidized R | hizospheres along | Living Roots (C3) |
| Saturation | | | | Marl Deposits | | | () | | f Reduced Iron (C | |
| Water Ma | . , | | | Hydrogen Sul | • • | (C1) | | Salt Depos | • | , |
| | Deposits (B2) | | | Dry-Season V | | | | | Stressed Plants (E |)1) |
| | | | | | | () | | _ | c Position (D2) |) |
| Drift Depo | | | | Other (Explai | п п кета | r KS) | | | () | |
| | or Crust (B4) | | | | | | | _ | uitard (D3) | |
| Iron Depo | . , | | | | | | | | raphic Relief (D4) | |
| Surface S | oil Cracks (B6) | | | | | | 1 | FAC-neutra | l Test (D5) | |
| Field Observa | ations: | | | | | | | | | |
| Surface Water | Present? | Yes 🖲 | No 🔾 | Depth (inche | s): 40 | | | | | |
| Water Table P | Present? | Yes \bigcirc | No 🖲 | Depth (inche | s): | | Wetlaı | nd Hydrology Presen | t?Yes 🖲 | No \bigcirc |
| Saturation Pre | sent? | \sim | | | | | | | | |
| (includes capi | | Yes \bigcirc | NO 🛡 | Depth (inche | s): | | | | | |
| Describe Recor | ded Data (strea | m gauge, r | nonitor wel | l, aerial photos, prev | vious inspe | ection) if ava | ilable: | | | |
| | , | , | | | | | | | | |
| Remarks: | | | | | | | | | | |
| small pond per | m flooded | | | | | | | | | |
| sinan pona per | | | | | | | | | | |
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