WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | | Borough/City: | Matanusk | ka-Susitna Borough Sampling Date: 03-Aug-12 | | | |
|---|--------------|----------------------------------|--|--|--|--|--|
| Applicant/Owner: Alaska Energy Authority | | | Sampling Point: SW12_T37_01 | | | | |
| Investigator(s): CTS, EKJ | side, terrac | e, terrace, hummocks etc.): Flat | | | | | |
| Local relief (concave, convex, none): flat | | Slope: | | 1 ° Elevation: 432 | | | |
| Subregion : Southcentral Alaska | l at · | 62.803978313 | | Long.: -149.532195727 Datum: NAD83 | | | |
| | Lat | 02.003970313 | 99 | | | | |
| Soil Map Unit Name: | | 0 V | No ○ | NWI classification: PSS1E | | | |
| Are climatic/hydrologic conditions on the site typical for this t Are Vegetation , Soil , or Hydrology | • | | | (If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ | | | |
| | • | tly disturbed? | | tornal olloumstances present: | | | |
| Are Vegetation . , Soil . , or Hydrology . | naturally | problematic? | (if nee | eded, explain any answers in Remarks.) | | | |
| SUMMARY OF FINDINGS - Attach site map sho | wing sa | mpling point | locations | s, transects, important features, etc. | | | |
| Hydrophytic Vegetation Present? Yes No | \supset | | 41 0 | unland Ameri | | | |
| Hydric Soil Present? Yes ● No | \supset | | Is the Sampled Area within a Wetland? Yes ● No ○ | | | | |
| Wetland Hydrology Present? Yes No | \supset | Wi | thin a W | nin a Wetland? Yes ● No ○ | | | |
| Remarks: Closed Myrica/Dasiphora low scrub, possible kett | le landfor | m | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION - Use scientific names of plants. L | ist all so | ecies in the | plot. | | | | |
| | Absolut | | | Dominance Test worksheet: | | | |
| Tree Stratum | % Cove | | Status | Number of Dominant Species | | | |
| 1. | 0 | | | That are OBL, FACW, or FAC: 3 (A) | | | |
| 2. | 0 | | | Total Number of Dominant Species Across All Strata: 3 (B) | | | |
| 3. | _ | | | Percent of dominant Species | | | |
| 4. | 0 | | | That Are OBL, FACW, or FAC: 100.0% (A/B) | | | |
| 5. | 0 | | | Prevalence Index worksheet: | | | |
| Total Cover | r: <u>0</u> | _ | | Total % Cover of: Multiply by: | | | |
| Sapling/Shrub Stratum 50% of Total Cover: | 0 20 | % of Total Cover: | 0 | OBL Species 115.5 x 1 = 115.5 | | | |
| Myrica gale | 60 | ✓ | OBL | FACW Species 1.1 x 2 = 2.200 | | | |
| Dasiphora fruticosa | 15 | | FAC | FAC Species <u>15</u> x 3 = <u>45</u> | | | |
| Andromeda polifolia | 0.1 | _ | FACW | FACU Species0 x 4 =0 | | | |
| 4. Vaccinium oxycoccos | 0.1 | | OBL | UPL Species0 x 5 =0 | | | |
| 5. Picea mariana | 1 | | FACW | Column Totals: _131.6_ (A) _162.7_ (B) | | | |
| 6. | | | | | | | |
| 7. | • | | | Prevalence Index = B/A = 1.236 | | | |
| 8 | 0 | | | Hydrophytic Vegetation Indicators: | | | |
| 9 | 0 | _ 📙 | | ✓ Dominance Test is > 50% | | | |
| 10 | 0 | _ | | ✓ Prevalence Index is ≤3.0 | | | |
| Total Cover | | | . 4534 | Morphological Adaptations ¹ (Provide supporting data in | | | |
| Herb Stratum 50% of Total Cover: | | _ | | Remarks or on a separate sheet) | | | |
| Menyanthes trifoliata | | | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) | | | |
| Carex tenuiflora Trick and a second size a | | | OBL | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | |
| 3. Trichophorum alpinum | 15 | | OBL | be present, unless disturbed of problematic. | | | |
| Carex aquatilis Carex limosa | 0.1 | | OBL | Plot size (radius, or length x width) | | | |
| 5. Carex limosa 6. Eleocharis quinqueflora | 0.1 | | OBL | % Cover of Wetland Bryophytes 50 | | | |
| | | | JDL | (Where applicable) | | | |
| 7. 8. | | - | | % Bare Ground | | | |
| 9. | | - | | Total Cover of Bryophytes | | | |
| 10. | | | | Hydrophytic | | | |
| Total Cover | r: 55.4 | _ | | Vegetation | | | |
| 50% of Total Cover: | | | 11.08 | Present? Yes No | | | |
| Remarks: | | | | | | | |
| | | | | | | | |

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SOIL Sampling Point: SW12_T37_01

| | ion: (Describe to the | ne depth neede latrix | d to document | | onfirm the abs | | cators) | | | | |
|---|--|--------------------------|---------------|------------------------------------|----------------|-------------------|----------|-------------------------------------|-----------------------------------|--|--|
| Depth (inches) | Color (mois | st) º | | lor (moist) | % | Type ¹ | _Loc_2 | Texture | Remarks | | |
| 0-1 | | | 30 | | | -75- | | Fibric Organics | 20% roots | | |
| 1-13 | | | 30 | | | | | Hemic Organics | 20% roots | | |
| | | | | | | | | | 20 /0 10003 | | |
| | | | | | | | | | | | |
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| - | | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix | | | | | | | | | | | |
| Hydric Soil I | ndicators: | | In | dicators for P | roblematio | Hydric S | oils:3 | | | | |
| Histosol or | r Histel (A1) | | | Alaska Color C | hange (TA4 | 1) | | Alaska Gleyed Without H | ue 5Y or Redder | | |
| ✓ Histic Epip | edon (A2) | | | Alaska Alpine | swales (TA5 | 5) | | Underlying Layer | | | |
| Hydrogen | Sulfide (A4) | | | Alaska Redox | With 2.5Y H | lue | | Other (Explain in Remark | rs) | | |
| ☐ Thick Dark | Surface (A12) | | - | | | | | | | | |
| Alaska Gle | eyed (A13) | | | One indicator o nd an appropria | | | | nary indicator of wetland hesent | ydrology, | | |
| Alaska Red | dox (A14) | | | | | • | • | | | | |
| Alaska Gle | eyed Pores (A15) |) | 4 (| Give details of o | color change | e in Remarl | ks | | | | |
| Restrictive Laye | er (if present): | | | | | | | | | | |
| Type: | | | | | | | | Hydric Soil Present | ? Yes • No O | | |
| Depth (inch | nes): | | | | | | | | | | |
| | | | | | | | | | | | |
| HYDROLO | | | | | | | | | | | |
| Wetland Hydi | | | | | | | | | cators (two or more are required) | | |
| | tors (any one is | sufficient) | | | | | | | ned Leaves (B9) | | |
| ✓ Surface W | . , | | L | Inundation \ | isible on A | erial Image | ery (B7) | _ | | | |
| | | | | | | | | hizospheres along Living Roots (C3) | | | |
| ✓ Saturation | ` ' | | | | s (B15) | | | | f 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) | | | | | | | | | | |
| | or Crust (B4) | | | | | | | | juitard (D3) | | |
| ☐ Iron Depo | . , | | | | | | | | graphic Relief (D4) | | |
| | oil Cracks (B6) | | | | | | | ✓ FAC-neutra | l Test (D5) | | |
| Field Observa | | v (a) | | | | | | | | | |
| Surface Water | r Present? | Yes 💿 | | Depth (inch | es): 1 | | | | | | |
| Water Table P | Present? | Yes 💿 | No 🔾 | Depth (inch | es): 0 | | Wetla | nd Hydrology Presen | t? Yes 💿 No 🔾 | | |
| Saturation Pre (includes capil | | Yes | No O | Depth (inch | es): 0 | | | | | | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
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