

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 02-Jul-13
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T139_04
 Investigator(s): WAD, BAB Landform (hillside, terrace, hummocks etc.): Bench
 Local relief (concave, convex, none): concave Slope: % / 2.3 ° Elevation: 432
 Subregion: Southcentral Alaska Lat.: 62.8237876506 Long.: -149.604788693 Datum: NAD83
 Soil Map Unit Name: _____ **NWI classification: PEM1F**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: Low elevation base of trough area with saturated tundra ponds and inundated puddles (almost strang). | |

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

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|------------------------------------|------------------------|-------------------------------------|------------------|--|
| Tree Stratum | | | | |
| 1. _____ | 0 | <input type="checkbox"/> | | |
| 2. _____ | 0 | <input type="checkbox"/> | | |
| 3. _____ | 0 | <input type="checkbox"/> | | |
| 4. _____ | 0 | <input type="checkbox"/> | | |
| 5. _____ | 0 | <input type="checkbox"/> | | |
| Total Cover: | | 0 | | |
| Sapling/Shrub Stratum | | | | |
| | 50% of Total Cover: 0 | 20% of Total Cover: 0 | | |
| 1. <u>Dasiphora fruticosa</u> | 5 | <input checked="" type="checkbox"/> | FAC | |
| 2. <u>Myrica gale</u> | 5 | <input checked="" type="checkbox"/> | OBL | |
| 3. <u>Betula nana</u> | 5 | <input checked="" type="checkbox"/> | FAC | |
| 4. <u>Vaccinium uliginosum</u> | 1 | <input type="checkbox"/> | FAC | |
| 5. <u>Chamaedaphne calyculata</u> | 1 | <input type="checkbox"/> | FACW | |
| 6. <u>Andromeda polifolia</u> | 1 | <input type="checkbox"/> | FACW | |
| 7. _____ | 0 | <input type="checkbox"/> | | |
| 8. _____ | 0 | <input type="checkbox"/> | | |
| 9. _____ | 0 | <input type="checkbox"/> | | |
| 10. _____ | 0 | <input type="checkbox"/> | | |
| Total Cover: | | 18 | | |
| Herb Stratum | | | | |
| | 50% of Total Cover: 9 | 20% of Total Cover: 3.6 | | |
| 1. <u>Trichophorum caespitosum</u> | 25 | <input checked="" type="checkbox"/> | OBL | |
| 2. <u>Comarum palustre</u> | 5 | <input type="checkbox"/> | OBL | |
| 3. <u>Carex aquatilis</u> | 5 | <input type="checkbox"/> | OBL | |
| 4. <u>Carex limosa</u> | 3 | <input type="checkbox"/> | OBL | |
| 5. <u>Menyanthes trifoliata</u> | 2 | <input type="checkbox"/> | OBL | |
| 6. <u>Eriophorum angustifolium</u> | 1 | <input type="checkbox"/> | OBL | |
| 7. <u>Equisetum fluviatile</u> | 1 | <input type="checkbox"/> | OBL | |
| 8. _____ | 0 | <input type="checkbox"/> | | |
| 9. _____ | 0 | <input type="checkbox"/> | | |
| 10. _____ | 0 | <input type="checkbox"/> | | |
| Total Cover: | | 42 | | |
| | 50% of Total Cover: 21 | 20% of Total Cover: 8.4 | | |

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL Species 47 x 1 = 47
 FACW Species 2 x 2 = 4
 FAC Species 11 x 3 = 33
 FACU Species 0 x 4 = 0
 UPL Species 0 x 5 = 0
 Column Totals: 60 (A) 84 (B)
 Prevalence Index = B/A = 1.400

Hydrophytic Vegetation Indicators:
 Dominance Test is > 50%
 Prevalence Index is ≤ 3.0
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Plot size (radius, or length x width) 10m
 % Cover of Wetland Bryophytes (Where applicable) 45
 % Bare Ground _____
 Total Cover of Bryophytes 45

Hydrophytic Vegetation Present? Yes No

Remarks: some emergent vegetation with surrounding moss meadow.

