Legend for Atlas 2 (Council and Quartz Creek) environmental site factors Table 10 in Raynolds et al. 2002¹, Key to codes & scalars

(Revised L. Druckenmiller 2015)

Landform (code)

- 1 Hills (including kames and moraines)
- 2 Talus slope
- 3 Colluvial basin
- 4 Glaciofluvial and other fluvial terraces
- 5 Marine terrace
- 6 Floodplains
- 7 Drained lakes and flat lake margins
- 8 Abandoned point bars and soughs
- 9 Estuary
- 10 Lake or pond
- 11 Stream
- 12 Sea bluff
- 13 Lake bluff
- 14 Stream bluff
- 15 Sand dunes
- 16 Beach
- 17 Disturbed

Surficial Geology-parent material (code)

- 1 Glacial tills
- 2 Glaciofluvial deposits
- 3 Active alluvial sands
- 4 Active alluvial gravels
- 5 Stabilized alluvium (sands & gravels)
- 6 Undifferentiated hill slope colluvium
- 7 Basin colluvium and organic deposits
- 8 Drained lake or lacustrine deposits
- 9 Lake or pond organic, sand, or silt
- 10 Undifferentiated sands
- 11 Undifferentiated clay
- 12 Road and gravel pads

Surficial Geomorphology (code)

- 1 Frost scars
- 2 Wetland hummocks
- 3 Turf hummocks
- 4 Gelifluction features
- 5 Srangmoor or aligned hummocks
- 6 High-or flat-centered polygons
- 7 Mixed high- and low-centered polygons
- 8 Sorted and non-sorted stripes
- 9 Palsas
- 10Thermokarst pits
- 11Featureless or with less 20% frost scars
- 12Well-developed hillslope water tracks and small streams >50 cm deep
- 13Poorly developed hillslope water tracks, < 50 cm deep
- 14Gently rolling or irregular microrelief
- 15Stoney surface
- 16Lakes and ponds
- 17Disturbed

Microsites (code)

- 1 frost-scar element
- 2 inter-scar element
- 3 strang or hummock
- 4 flark, interstrang, or inter-hummock
- 5 polygon center
- 6 polygon trough
- 7 polygon rim
- 8 stripe element
- 9 inter-stripe element
- 10point bar (raised element)
- 11Slough (wet element)

Site moisture (scalar) modified from

Kormárková (1983)

- 1.0 extremely xeric almost no moisture
- 2.0 very xeric very little moisture
- 3.0 xeric little moisture
- 4.0 subxeric noticeable moisture
- 5.0 subxeric to mesic very noticeable moisture
- 6.0 mesic moderate moisture
- 7.0 mesic to subhygric considerable moisture
- 8.0 subhygric <5% standing water, <10 cm deep
- 9.0 hygric -10-50 cm deep
- 10.0 hydric- 50-150 cm deep

Soil moisture (scalar) from Kormárková (1983)

- 1.0 very dry
- 2.0 dry
- 3.0 damp
- 4.0 damp to moist
- 5.0 moist
- 6.0 moist to wet
- 7.0 wet
- 8.0 very wet
- 9.0 saturated
- 10.0 very saturated

Glacial geology (code)

- 1 till
- 2 outwash
- 3 bedrock

Topographic position (code)

- 1 hill crest or shoulder
- 2 side slope
- 3 footslope or toeslope
- 4 flat
- 5 drainage channel
- 6 depression
- 7 lake or pond

Legend for environmental site factors (continued)

Soil Units

- 1 Pergelic Cryorthent, acid
- 2 Pergelic Cryosamment
- 3 Pergelic Cryohemist, euic
- 4 Pergelic Cryosaprist, euic
- 5 Lithic Pergelic Cryosaprist
- 6 Pergelic cryofibrist, euic
- 7 Histic Pergelic Cryoquept, acid
- 8 Histic Pergelic Cryoquept, nonacid
- 9 Pergelic Cryaquept, acid
- 10 Pergelic Cryochrept, nonacid
- 11 Pergelic Cryochrept
- 12 Pergelic Crumbrept
- 13 Rubptic-Lithic Cryumbrept
- 14 Pergelic Cryaquoll
- 15 Histic Pergelic Cryaquoll
- 16 Pergelic Cryoboroll
- 17 Pergelic cryohemist dysic

Pergelic Sphagnohemist

Pergelic Sphagnum fibrist

Histic Pergelic Cryaquept

Exposure (scalar)

- 1.0 protected from winds
- 2.0 moderate exposure
- 3.0 exposed
- 4.0 very exposed

Estimated snow duration (code)

- 1 snow free all year
- 2 snow free most of winter
- 3 snow free prior to melt out
- 4 snow free immediately after melt out
- 5 snow bank persists 1-2 weeks after melt out
- 6 snow bank persists 3-4 weeks after melt out
- 7 snow bank persists 4-8 weeks after melt out
- 8 snow bank persists 8-12 weeks after melt out
- 9 very short snow free period
- 10 deep snow all year

Animal and Human Disturbance (scalar)

- 0.0 none
- 1.0 some sign present; no disturbance
- 2.0 minor disturbance or extensive sign
- 3.0 moderate disturbance; small dens or light grazing
- 4.0 major disturbance; multiple dens or noticeable trampling
- 5.0 very major disturbance; very extensive tunneling or large pit

Stability (code)

- 1 stable
- 2 subject to occasional disturbance
- 3 subject to prolonged but slow disturbance
- 4 annually disturbed
- 5 disturbed more than once annually

¹Raynolds, M. K., C. R. Martin, D. A. Walker, A. Moody, D. Wirth, and C. Thayer-Snyder. 2002. Atlas Vegetation Studies: Seward Peninusla, Alaska, 2000. Vegetation, Soil, and Site Information with Seward Vegetation Map. ARCSS-ATLAS-AGC data report, Alaska Geobotany Center, University of Alaska Fairbanks, Fairbanks, Alaska USA.