**Technical Dichotomous Key for Differentiation of Surficial Materials**

Created by Darrell Hoffman

1. a. Unsorted or poorly sorted ------------------------------------------------- go to 2.

b. Well sorted -------------------------------------------------------------------- go to 5.

2. a. Angular blocks ---------------------------------------------------------------- go to 3.

b. Sub-angular material present, slope <35° ------------------------------ go to 4.

on hummocky/irregular terrain

c. Unsorted, non-stratified, rounded gravel ------------------------------ go to 5.

1. a. Material displaced, below or on slope >35° --------------------------- Colluvium

b. Material apparently not displaced and --------------------------------- Weathered Bedrock

fragments are <10cm

1. a. Heterogeneous, non-stratified mixture of ---------------------------- Morainal (Till)

coarse material in matrix of sand, silt and

clay, well compacted to non-compacted

b. Stratified gravel, more sorted, or lacking ------------------------------ Glaciofluvial

clay

1. a. Near modern/active drainage network --------------------------------- Fluvial

b. Distance from or elevation above modern ----------------------------- Glaciofluvial

drainage networks enough that deposition

by a modern stream or river is unlikely

1. a. Well rounded gravel with interstitial sand ----------------------------- go to 7.

and silt

b. Clay, silt and fine sand ------------------------------------------------------ go to 9.

1. a. Near modern/active drainage network --------------------------------- go to 8.

b. Distance from or elevation above modern ----------------------------- Glaciofluvial

drainage networks enough that deposition

by a modern stream or river is unlikely

1. a. Near river or stream --------------------------------------------------------- Fluvial

b. Near lake ----------------------------------------------------------------------- Littoral Lacustrine

c. Near ocean --------------------------------------------------------------------- Littoral Marine

1. a. Near modern/active drainage network --------------------------------- go to 10.

b. Distance or elevation above modern ------------------------------------ go to 11.

drainage networks enough that deposition

by a modern water body is unlikely and/or

presence of Morainal (Till) material or ice

rafted stones at irregular intervals

1. a. Near lake, stratified ----------------------------------------------------------- Lacustrine

b. Near ocean, non-stratified -------------------------------------------------- Marine

1. a. Hummocky/irregular terrain, no marine shells ------------------------ Glaciolacustrine

or other remains of marine life and/or inland

site

b. Presence of marine shells or other marine ----------------------------- Glaciomarine

organism remains

REFERENCE

Ministry of Environment (1997) Terrain Classification System for British Columbia Version 2. *Fisheries Branch, Ministry of Environment and Surveys and Resource Mapping Branch, Ministry of Crown Lands Province of British Columbia,* 10-25.

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