

115-22-319

Subvertical section, Nelson River

Elevation: 100 m (surface)

Latitude: 56.416 Longitude: -94.314

Age

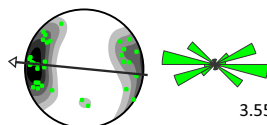
Ice-flow data

Interpretation

Bed

Description

Marine shell
7938 ± 17 ¹⁴C yr. BP
UOC-20688



273°;
Su;
S₁=0.69;
3.55 m depth

Glaciomarine,
shallow

Till

Shallow
lacustrine
(nonglacial)

Fluvial or
glaciofluvial
sand and gravel

Sand
optically stimulated luminescence
Preliminary tests show its very old,
and likely not re-set
HBL22-3

A-axis clast fabric

Su = spread unimodal modality
S₁ = principal eigenvalue

Stratigraphic
bed

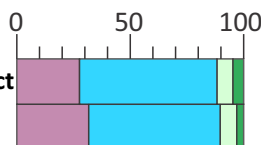
Simplified till
clast-lithology (ct. %)

Till-matrix
total carbonate
(wt. %)

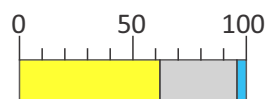
Till-matrix
texture (wt. %)

Bed B diamict

Bed D till

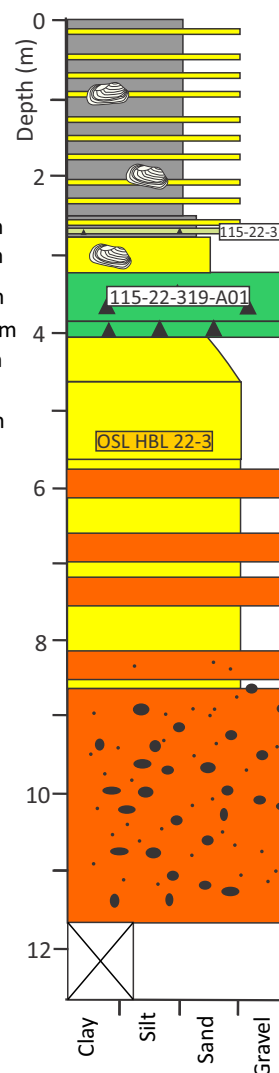


49.9%



Granitoid, gneiss and exotic GR clasts
Hudson Bay Basin clasts
Identified greywacke-greenstone clasts
Undifferentiated greywacke-greenstone clasts

Sand
Silt
Clay



A: silt and sand, interbedded with marine shells.

B: silt, sand and diamict interbedded; diamict has a clayey sandy silt matrix with 5 to 10% clasts that are granule to boulder-sized, medium pebble-size dominates, and of mixed lithologies; some areas of moderately-sorted beds; lower contact is gradational over 0.03 m.

C: silty fine sand, massive with 5% granule to small pebble-sized clasts, blocky soil texture, and rare fragile shell fragments - single valve of *Hiattella arctica* returned a radiocarbon age of 8027–8427 cal BP (8.25 ± 0.2, UOC-20688).

D: diamict, light olive brown, massive with a silty-sandy matrix and 5% clasts that are small to medium pebble-sized, includes some lenses of sorted sands.

E: diamict, massive with a silty sandy matrix and 20% clasts that are granule to medium cobble-sized; sharp erosional lower contact.

F: fine sand that coarsens down to medium sand, well to very well sorted, subhorizontal to cross-bedded with some more chaotic bedding near the top; beds near upper contact have a 45 degree dip and are cut off.

G: medium sand, horizontal to hummocky cross stratified; sharp undulatory lower contact.

H: fine sand horizontally interbedded with gravel and sandy gravel; fine sand is well sorted; gravel contains granule to small boulder-sized clasts, medium pebble-size dominant, subangular to rounded, mixed lithologies; subhorizontal conformable lower contact.

I: gravel, horizontal bedding, clast supported with 50 to 80% small pebble to medium cobble-sized clasts that are subangular to rounded.